SECTION 5

ASSEMBLIES AND SCHEMATICS

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** Denotes use of Optic Door Sensor and HE09A Bubble Detector. The change is associated with all manufactured 3860+ Pumps (Serial Number IR60100153 and higher) and 3861 Sidecar (Serial Number IR61100110 and higher)*

If your product has parts not reflected in the drawings within this version of the 1125A Service Manual please contact Iradimed Technical Service at 1-407-677-8022 within the U.S., +001-407-677-8022 from outside the U.S. (during normal business hours EST), or by e-mail at techsupport@iradimed.com.

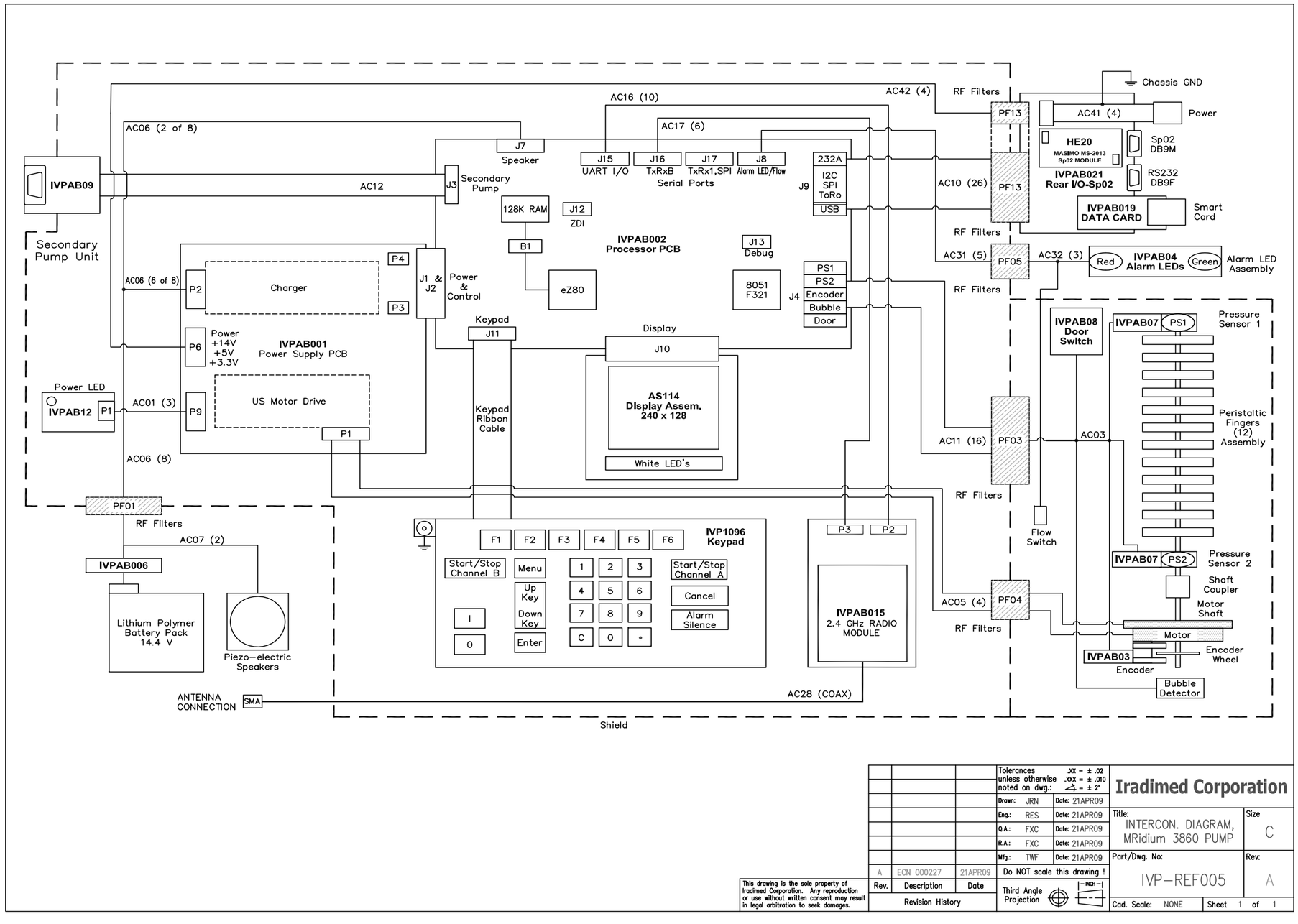
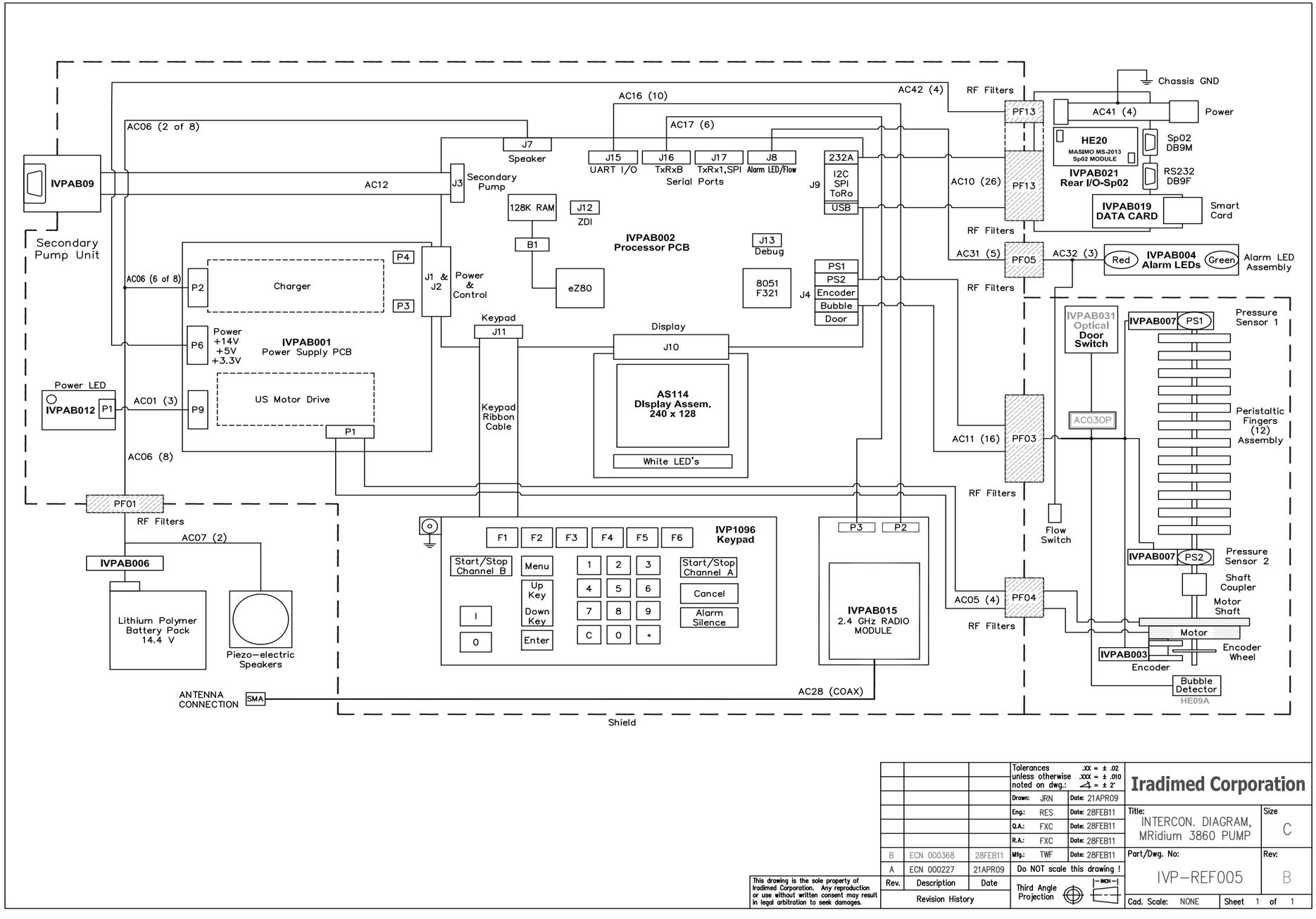


Figure 5-1. MRidium 3860+ IV Pump Interconnect Diagram



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B	ECN 000368	28FEB11
A	ECN 000227	21APR09

Revision History

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn: JRN	Date: 21APR09	
Eng.: RES	Date: 28FEB11	
Q.A.: FXC	Date: 28FEB11	
R.A.: FXC	Date: 28FEB11	
Mfg.: TWF	Date: 28FEB11	

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Third Angle Projection

Iradimed Corporation

Title: INTERCON. DIAGRAM, MRidium 3860 PUMP

Size: C

Part/Dwg. No: IVP–REF005

Rev: B

Cad. Scale: NONE

Sheet 1 of 1

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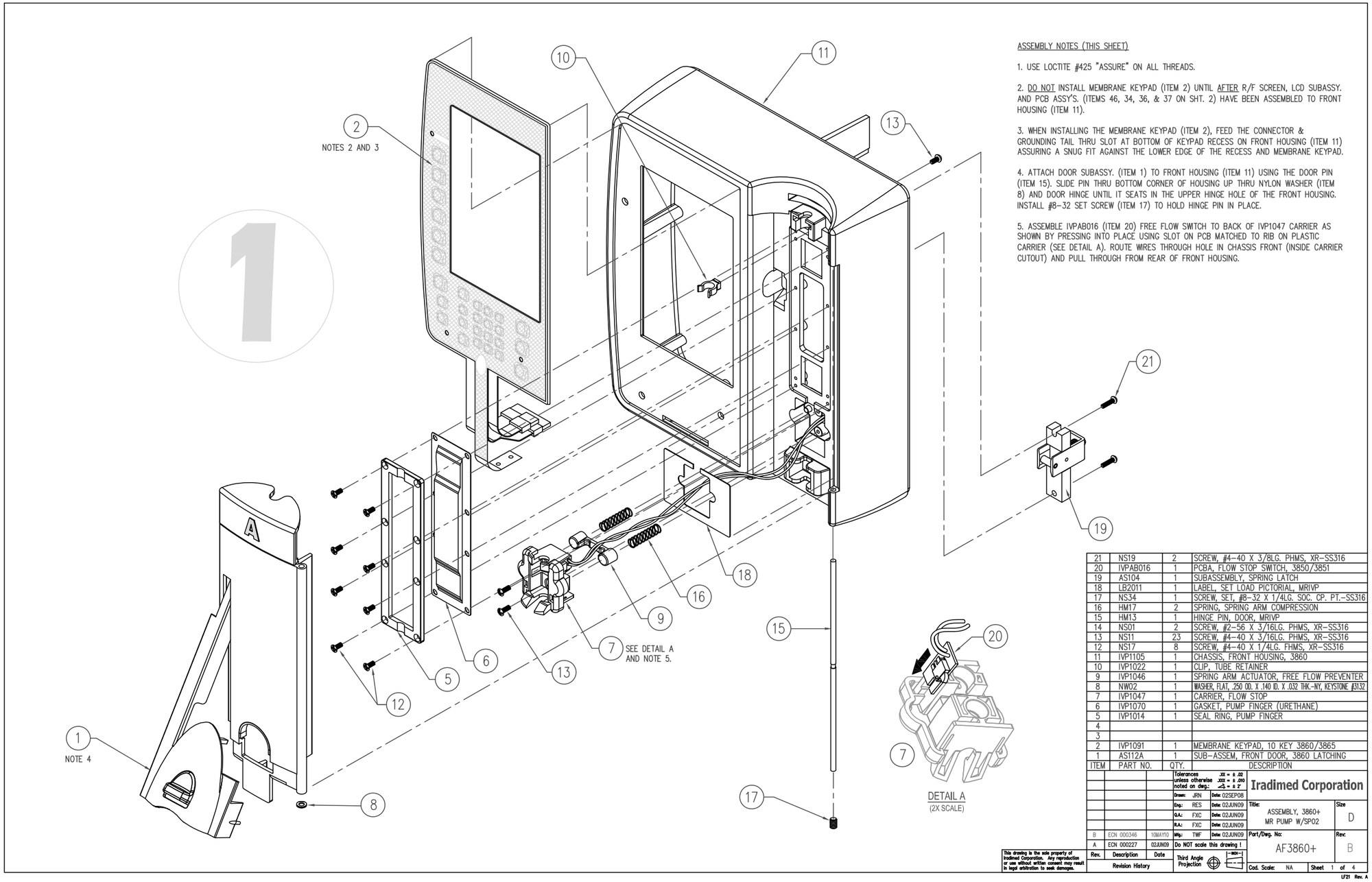
Figure 5-2. MRidium 3860+ IV Pump Interconnect Diagram with Optic Sensor*



ASSEMBLY NOTES (THIS SHEET)

1. USE LOCTITE #425 "ASSURE" ON ALL THREADS.

2. DO NOT INSTALL MEMBRANE KEYPAD (ITEM 2) UNTIL AFTER R/F SCREEN, LCD SUBASSY. AND PCB ASSY'S. (ITEMS 46, 34, 36, & 37 ON SHT. 2) HAVE BEEN ASSEMBLED TO FRONT HOUSING (ITEM 11).

3. WHEN INSTALLING THE MEMBRANE KEYPAD (ITEM 2), FEED THE CONNECTOR & GROUNDING TAIL THRU SLOT AT BOTTOM OF KEYPAD RECESS ON FRONT HOUSING (ITEM 11) ASSURING A SNUG FIT AGAINST THE LOWER EDGE OF THE RECESS AND MEMBRANE KEYPAD.

4. ATTACH DOOR SUBASSY. (ITEM 1) TO FRONT HOUSING (ITEM 11) USING THE DOOR PIN (ITEM 15). SLIDE PIN THRU BOTTOM CORNER OF HOUSING UP THRU NYLON WASHER (ITEM 8) AND DOOR HINGE UNTIL IT SEATS IN THE UPPER HINGE HOLE OF THE FRONT HOUSING. INSTALL #8-32 SET SCREW (ITEM 17) TO HOLD HINGE PIN IN PLACE.

5. ASSEMBLE IVPAB016 (ITEM 20) FREE FLOW SWITCH TO BACK OF IVP1047 CARRIER AS SHOWN BY PRESSING INTO PLACE USING SLOT ON PCB MATCHED TO RIB ON PLASTIC CARRIER (SEE DETAIL A). ROUTE WIRES THROUGH HOLE IN CHASSIS FRONT (INSIDE CARRIER CUTOUT) AND PULL THROUGH FROM REAR OF FRONT HOUSING.

ITEM	PART NO.	QTY.	DESCRIPTION
21	NS19	2	SCREW, #4-40 X 3/8LG. PHMS, XR-SS316
20	IVPAB016	1	PCBA, FLOW STOP SWITCH, 3850/3851
19	AS104	1	SUBASSEMBLY, SPRING LATCH
18	LB2011	1	LABEL, SET LOAD PICTORIAL, MRIVP
17	NS34	1	SCREW, SET, #8-32 X 1/4LG. SOC. CP. PT.-SS316
16	HM17	2	SPRING, SPRING ARM COMPRESSION
15	HM13	1	HINGE PIN, DOOR, MRIVP
14	NS01	2	SCREW, #2-56 X 3/16LG. PHMS, XR-SS316
13	NS11	23	SCREW, #4-40 X 3/16LG. PHMS, XR-SS316
12	NS17	8	SCREW, #4-40 X 1/4LG. FHMS, XR-SS316
11	IVP1105	1	CHASSIS, FRONT HOUSING, 3860
10	IVP1022	1	CLIP, TUBE RETAINER
9	IVP1046	1	SPRING ARM ACTUATOR, FREE FLOW PREVENTER
8	NW02	1	WASHER, FLAT, .250 OD. X .140 ID. X .032 THK.-NY, KEYSTONE #3132
7	IVP1047	1	CARRIER, FLOW STOP
6	IVP1070	1	GASKET, PUMP FINGER (URETHANE)
5	IVP1014	1	SEAL RING, PUMP FINGER
4			
3			
2	IVP1091	1	MEMBRANE KEYPAD, 10 KEY 3860/3865
1	AS112A	1	SUB-ASSEM, FRONT DOOR, 3860 LATCHING

Rev.		Description	Date
B	ECN 000346		10MAY10
A	ECN 000227		02JUN09

Revision History

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Drawn: JRN	Date: 02SEP08	
Eng.: RES	Date: 02JUN09	Title: ASSEMBLY, 3860+ MR PUMP W/SP02
Q.A.: FXC	Date: 02JUN09	Size: D
R.A.: FXC	Date: 02JUN09	
Mfg.: TWF	Date: 02JUN09	Part/Dwg. No: AF3860+
Do NOT scale this drawing !		Rev.: B
Third Angle Projection		Cad. Scale: NA
		Sheet 1 of 4

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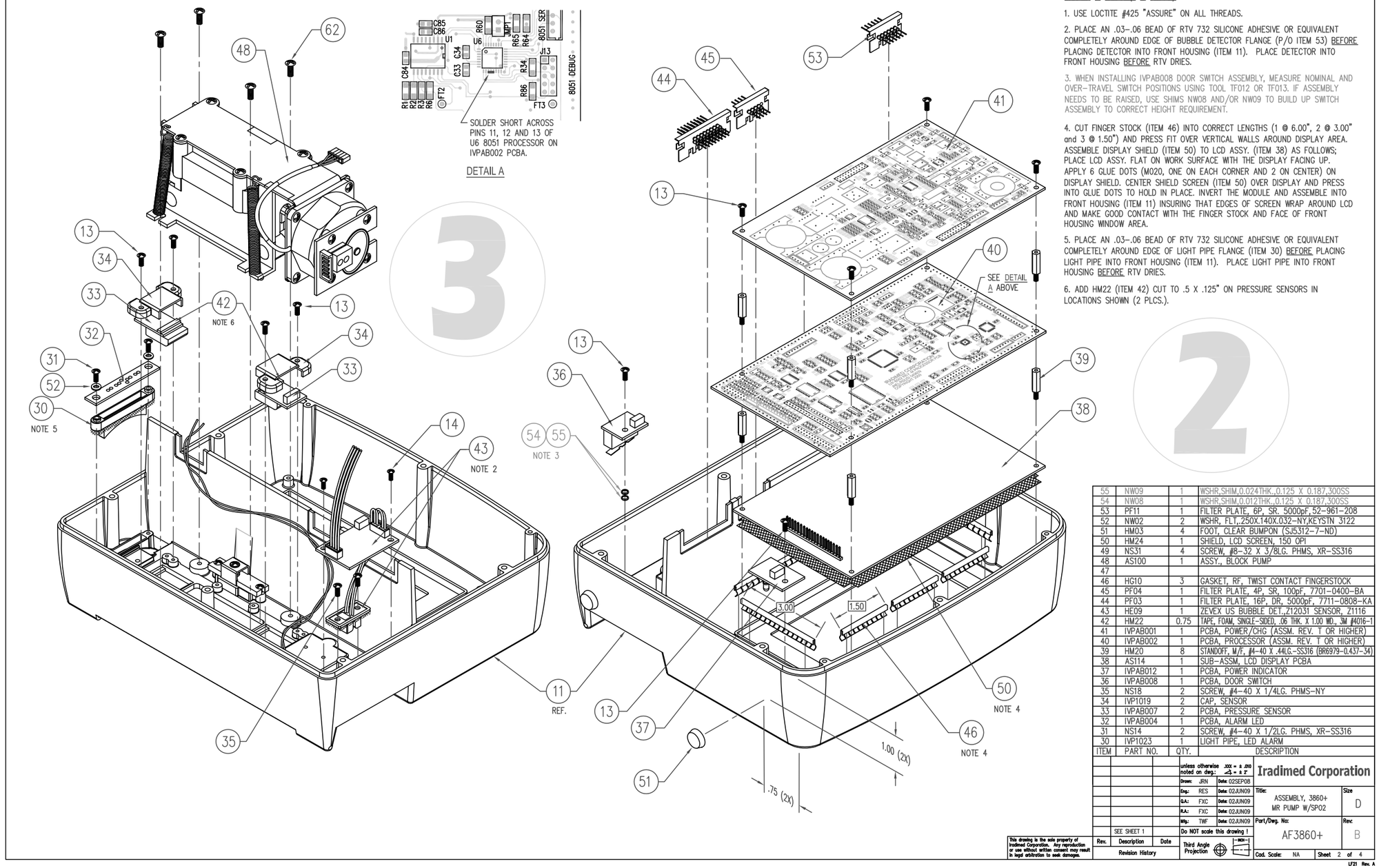
LF21 Rev. A

Figure 5-3. 3860+ MR Pump Assembly AF3860+ Sheet 1 of 4



ASSEMBLY NOTES (THIS SHEET)

1. USE LOCTITE #425 "ASSURE" ON ALL THREADS.

2. PLACE AN .03–.06 BEAD OF RTV 732 SILICONE ADHESIVE OR EQUIVALENT COMPLETELY AROUND EDGE OF BUBBLE DETECTOR FLANGE (P/O ITEM 53) BEFORE PLACING DETECTOR INTO FRONT HOUSING (ITEM 11). PLACE DETECTOR INTO FRONT HOUSING BEFORE RTV DRIES.

3. WHEN INSTALLING IVPAB008 DOOR SWITCH ASSEMBLY, MEASURE NOMINAL AND OVER–TRAVEL SWITCH POSITIONS USING TOOL TF012 OR TF013. IF ASSEMBLY NEEDS TO BE RAISED, USE SHIMS NW08 AND/OR NW09 TO BUILD UP SWITCH ASSEMBLY TO CORRECT HEIGHT REQUIREMENT.

4. CUT FINGER STOCK (ITEM 46) INTO CORRECT LENGTHS (1 @ 6.00", 2 @ 3.00" and 3 @ 1.50") AND PRESS FIT OVER VERTICAL WALLS AROUND DISPLAY AREA. ASSEMBLE DISPLAY SHIELD (ITEM 50) TO LCD ASSY. (ITEM 38) AS FOLLOWS; PLACE LCD ASSY. FLAT ON WORK SURFACE WITH THE DISPLAY FACING UP. APPLY 6 GLUE DOTS (M020, ONE ON EACH CORNER AND 2 ON CENTER) ON DISPLAY SHIELD. CENTER SHIELD SCREEN (ITEM 50) OVER DISPLAY AND PRESS INTO GLUE DOTS TO HOLD IN PLACE. INVERT THE MODULE AND ASSEMBLE INTO FRONT HOUSING (ITEM 11) INSURING THAT EDGES OF SCREEN WRAP AROUND LCD AND MAKE GOOD CONTACT WITH THE FINGER STOCK AND FACE OF FRONT HOUSING WINDOW AREA.

5. PLACE AN .03–.06 BEAD OF RTV 732 SILICONE ADHESIVE OR EQUIVALENT COMPLETELY AROUND EDGE OF LIGHT PIPE FLANGE (ITEM 30) BEFORE PLACING LIGHT PIPE INTO FRONT HOUSING (ITEM 11). PLACE LIGHT PIPE INTO FRONT HOUSING BEFORE RTV DRIES.

6. ADD HM22 (ITEM 42) CUT TO .5 X .125" ON PRESSURE SENSORS IN LOCATIONS SHOWN (2 PLCS.).

ITEM	PART NO.	QTY.	DESCRIPTION
55	NW09	1	WSHR,SHIM,0.024THK.,0.125 X 0.187,300SS
54	NW08	1	WSHR,SHIM,0.012THK.,0.125 X 0.187,300SS
53	PF11	1	FILTER PLATE, 6P, SR. 5000pF,52–961–208
52	NW02	2	WSHR, FLT,.250X.140X.032–NY,KEYSTN 3122
51	HM03	4	FOOT, CLEAR BUMPON (SJ5312–7–ND)
50	HM24	1	SHIELD, LCD SCREEN, 150 OPI
49	NS31	4	SCREW, #8–32 X 3/8LG. PHMS, XR–SS316
48	AS100	1	ASSY., BLOCK PUMP
47			
46	HG10	3	GASKET, RF, TWIST CONTACT FINGERSTOCK
45	PF04	1	FILTER PLATE, 4P, SR, 100pF, 7701–0400–BA
44	PF03	1	FILTER PLATE, 16P, DR, 5000pF, 7711–0808–KA
43	HE09	1	ZEVEX US BUBBLE DET.,Z12031 SENSOR, Z1116
42	HM22	0.75	TAPE, FOAM, SINGLE–SIDED, .06 THK. X 1.00 WD., 3M #4016–1
41	IVPAB001	1	PCBA, POWER/CHG (ASSM. REV. T OR HIGHER)
40	IVPAB002	1	PCBA, PROCESSOR (ASSM. REV. T OR HIGHER)
39	HM20	8	STANDOFF, M/F, #4–40 X .44LG.–SS316 (BR6979–0.437–34)
38	AS114	1	SUB–ASSM, LCD DISPLAY PCBA
37	IVPAB012	1	PCBA, POWER INDICATOR
36	IVPAB008	1	PCBA, DOOR SWITCH
35	NS18	2	SCREW, #4–40 X 1/4LG. PHMS–NY
34	IVP1019	2	CAP, SENSOR
33	IVPAB007	2	PCBA, PRESSURE SENSOR
32	IVPAB004	1	PCBA, ALARM LED
31	NS14	2	SCREW, #4–40 X 1/2LG. PHMS, XR–SS316
30	IVP1023	1	LIGHT PIPE, LED ALARM

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Rev.	Description	Date
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Revision History

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Drawn:	JRN	Date: 02SEP08
Eng.:	RES	Date: 02JUN09
Q.A.:	FXC	Date: 02JUN09
R.A.:	FXC	Date: 02JUN09
Mfg.:	TWF	Date: 02JUN09

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Third Angle Projection

Title: ASSEMBLY, 3860+ MR PUMP W/SP02

Size: D

Part/Dwg. No: AF3860+

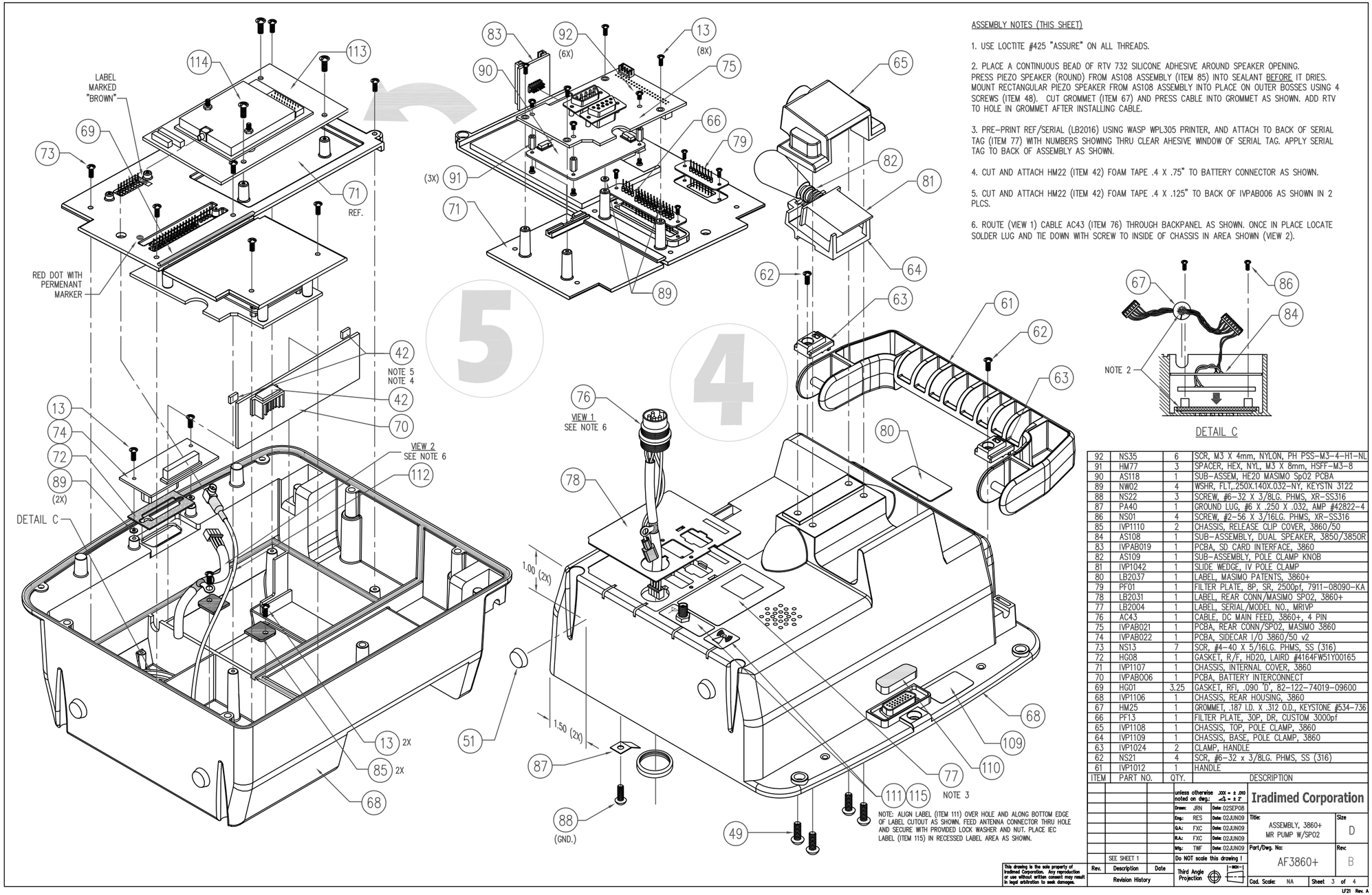
Rev: B

Cad. Scale: NA

Sheet 2 of 4

LF21 Rev. A

Figure 5-4. 3860+ MR Pump Assembly AF3860+ Sheet 2 of 4


ASSEMBLY NOTES (THIS SHEET)
1. USE LOCTITE #425 "ASSURE" ON ALL THREADS.
2. PLACE A CONTINUOUS BEAD OF RTV 732 SILICONE ADHESIVE AROUND SPEAKER OPENING. PRESS PIEZO SPEAKER (ROUND) FROM AS108 ASSEMBLY (ITEM 85) INTO SEALANT BEFORE IT DRIES. MOUNT RECTANGULAR PIEZO SPEAKER FROM AS108 ASSEMBLY INTO PLACE ON OUTER BOSSES USING 4 SCREWS (ITEM 48). CUT GROMMET (ITEM 67) AND PRESS CABLE INTO GROMMET AS SHOWN. ADD RTV TO HOLE IN GROMMET AFTER INSTALLING CABLE.
3. PRE-PRINT REF/SERIAL (LB2016) USING WASP WPL305 PRINTER, AND ATTACH TO BACK OF SERIAL TAG (ITEM 77) WITH NUMBERS SHOWING THRU CLEAR AHESIVE WINDOW OF SERIAL TAG. APPLY SERIAL TAG TO BACK OF ASSEMBLY AS SHOWN.
4. CUT AND ATTACH HM22 (ITEM 42) FOAM TAPE .4 X .75" TO BATTERY CONNECTOR AS SHOWN.
5. CUT AND ATTACH HM22 (ITEM 42) FOAM TAPE .4 X .125" TO BACK OF IVPAB006 AS SHOWN IN 2 PLCS.
6. ROUTE (VIEW 1) CABLE AC43 (ITEM 76) THROUGH BACKPANEL AS SHOWN. ONCE IN PLACE LOCATE SOLDER LUG AND TIE DOWN WITH SCREW TO INSIDE OF CHASSIS IN AREA SHOWN (VIEW 2).
LABEL MARKED "BROWN"
RED DOT WITH PERMENANT MARKER
REF.
NOTE 5
NOTE 4
VIEW 1 SEE NOTE 6
VIEW 2 SEE NOTE 6
DETAIL C
NOTE 2
DETAIL C
1.00 (2x)
1.50 (2x)
(GND.)
NOTE 3
NOTE: ALIGN LABEL (ITEM 111) OVER HOLE AND ALONG BOTTOM EDGE OF LABEL CUTOUT AS SHOWN. FEED ANTENNA CONNECTOR THRU HOLE AND SECURE WITH PROVIDED LOCK WASHER AND NUT. PLACE IEC LABEL (ITEM 115) IN RECESSED LABEL AREA AS SHOWN.
5
4

ITEM	PART NO.	QTY.	DESCRIPTION
92	NS35	6	SCR, M3 X 4mm, NYLON, PH PSS-M3-4-H1-NL
91	HM77	3	SPACER, HEX, NYL, M3 X 8mm, HSFF-M3-8
90	AS118	1	SUB-ASSEM, HE20 MASIMO SpO2 PCBA
89	NW02	4	WSHR, FLT,.250X.140X.032-NY, KEYSTN 3122
88	NS22	3	SCREW, #6-32 X 3/8LG. PHMS, XR-SS316
87	PA40	1	GROUND LUG, #6 X .250 X .032, AMP #42822-4
86	NS01	4	SCREW, #2-56 X 3/16LG. PHMS, XR-SS316
85	IVP1110	2	CHASSIS, RELEASE CLIP COVER, 3860/50
84	AS108	1	SUB-ASSEMBLY, DUAL SPEAKER, 3850/3850R
83	IVPAB019	1	PCBA, SD CARD INTERFACE, 3860
82	AS109	1	SUB-ASSEMBLY, POLE CLAMP KNOB
81	IVP1042	1	SLIDE WEDGE, IV POLE CLAMP
80	LB2037	1	LABEL, MASIMO PATENTS, 3860+
79	PF01	1	FILTER PLATE, 8P, SR, 2500pf, 7911-08090-KA
78	LB2031	1	LABEL, REAR CONN/MASIMO SPO2, 3860+
77	LB2004	1	LABEL, SERIAL/MODEL NO., MRIVP
76	AC43	1	CABLE, DC MAIN FEED, 3860+, 4 PIN
75	IVPAB021	1	PCBA, REAR CONN/SPO2, MASIMO 3860
74	IVPAB022	1	PCBA, SIDECAR I/O 3860/50 v2
73	NS13	7	SCR, #4-40 X 5/16LG. PHMS, SS (316)
72	HG08	1	GASKET, R/F, HD20, LAIRD #4164FW51Y00165
71	IVP1107	1	CHASSIS, INTERNAL COVER, 3860
70	IVPAB006	1	PCBA, BATTERY INTERCONNECT
69	HG01	3.25	GASKET, RFI, .090 'D', 82-122-74019-09600
68	IVP1106	1	CHASSIS, REAR HOUSING, 3860
67	HM25	1	GROMMET, .187 I.D. X .312 O.D., KEYSTONE #534-736
66	PF13	1	FILTER PLATE, 30P, DR, CUSTOM 3000pf
65	IVP1108	1	CHASSIS, TOP, POLE CLAMP, 3860
64	IVP1109	1	CHASSIS, BASE, POLE CLAMP, 3860
63	IVP1024	2	CLAMP, HANDLE
62	NS21	4	SCR, #6-32 x 3/8LG. PHMS, SS (316)
61	IVP1012	1	HANDLE

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Rev.	Description	Date
Revision History		

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Q.A.:	FXC	Date: 02JUN09
R.A.:	FXC	Date: 02JUN09
Mfg.:	TWF	Date: 02JUN09

Do NOT scale this drawing !

Third Angle Projection

Title: ASSEMBLY, 3860+ MR PUMP W/SPO2

Size: D

Part/Dwg. No: AF3860+

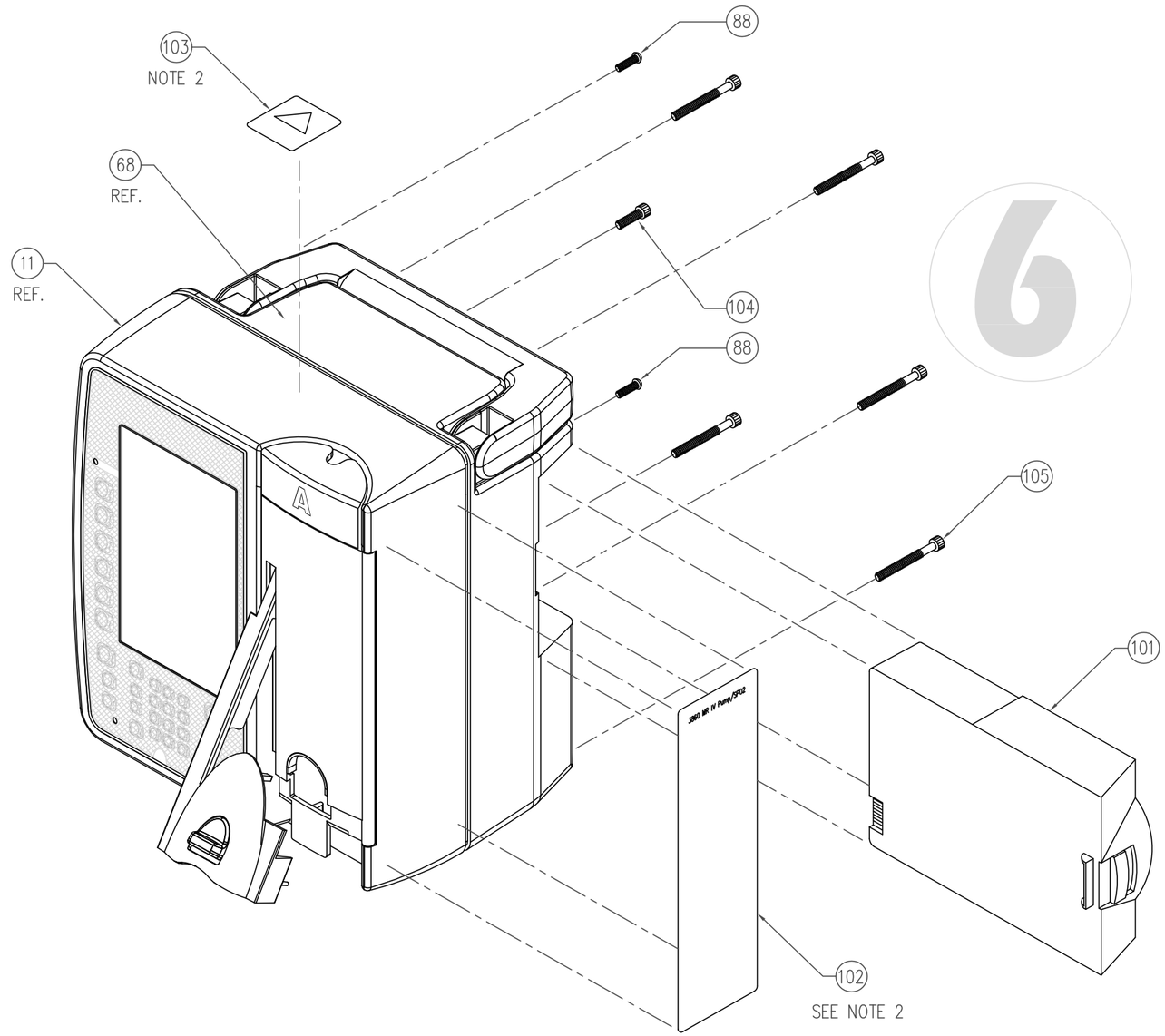
Rev: B

Cad. Scale: NA

Sheet 3 of 4

LF21 Rev. A

Figure 5-5. 3860+ MR Pump Assembly AF3860+ Sheet 3 of 4



ASSEMBLY NOTES (THIS SHEET)

1. USE LOCTITE #425 "ASSURE" ON ALL THREADS.

2. ATTACH LABEL (ITEM 102) TO SIDE OF FRONT HOUSING (ITEM 11) CENTERED AS SHOWN.

3. ATTACH LABEL (ITEM 103) TO TOP OF FRONT HOUSING (ITEM 11) CENTERED AS SHOWN AND LOCATED .25 ±.06 FROM SEAM.

ITEM	PART NO.	QTY.	DESCRIPTION
115	LB2026	1	LABEL, IEC 60417 SYMBOL, .75" X .75"
114	NS21	3	SCREW, #6-32 X 1/4LG. PHMS, XR-SS316
113	IVPAB015	1	PCBA, RADIO MOUNT/ INTERCONNECT
112	AC28	1	CABLE, ANT., RG178, AEROCOMM 1300-00023
111	LB2005	1	LABEL, ANTENNA CONN, 3850
110	HM41	1	DB15F DUST CAP, SOCKET, 538-DA-59-20
109	LB2010	1	LABEL, SIDECAR CONNECTOR
108	HG07	3.75"	GASKET, .02 X .157, FAB/FOAM, PSA
107			
106			
105	NS33	5	#8-32 X 1-1/2LG. SHCS-SS316
104	NS32	3	#8-32 X 1/2LG. SHCS-SS316
103	LB2003	1	LABEL, MRIVP, MR COMPATIBLE SYMBOL
102	LB2033	1	LABEL, MRIVP, ABBREV OP INST, 3860/SpO2
101	1133	1	MRI COMPATIBLE BATTERY PACK, 14.8V/5.8A

unless otherwise noted on dwg.: .XXX = ± .010, ∠ = ± 2°

Iradimed Corporation

Drawn: JRN Date: 02SEP08
Eng.: RES Date: 02JUN09
Q.A.: FXC Date: 02JUN09
R.A.: FXC Date: 02JUN09
Mfg.: TWF Date: 02JUN09

SEE SHEET 1

Do NOT scale this drawing !

Title: ASSEMBLY, 3860+ MR PUMP W/SP02

Size: D

Part/Dwg. No: AF3860+

Rev: B

Third Angle Projection

Cad. Scale: NA

Sheet 4 of 4

LF21 Rev. A

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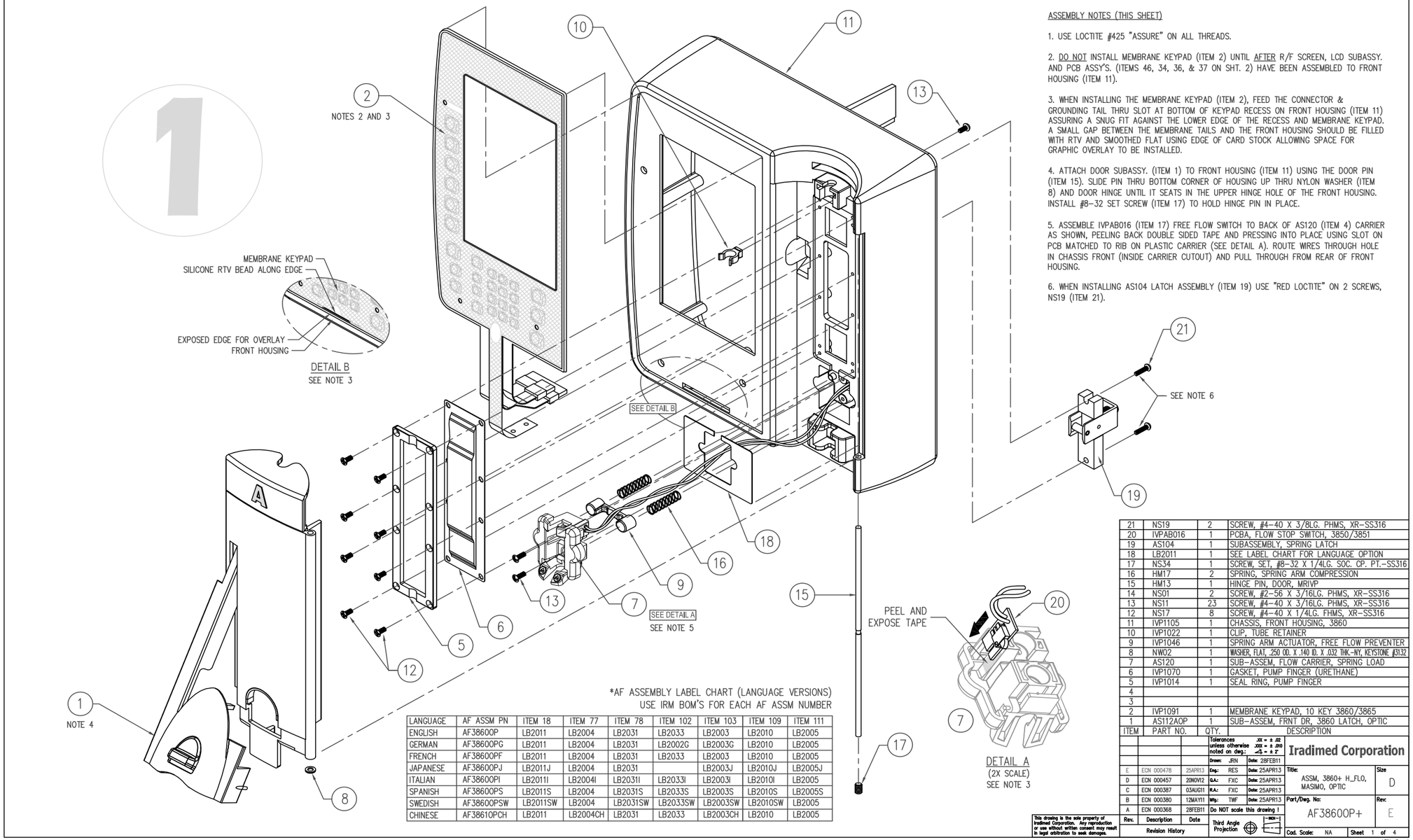
Figure 5-6. 3860+ MR Pump Assembly AF3860+ Sheet 4 of 4



ASSEMBLY NOTES (THIS SHEET)

1. USE LOCTITE #425 "ASSURE" ON ALL THREADS.

2. DO NOT INSTALL MEMBRANE KEYPAD (ITEM 2) UNTIL AFTER R/F SCREEN, LCD SUBASSY. AND PCB ASSY'S. (ITEMS 46, 34, 36, & 37 ON SHT. 2) HAVE BEEN ASSEMBLED TO FRONT HOUSING (ITEM 11).

3. WHEN INSTALLING THE MEMBRANE KEYPAD (ITEM 2), FEED THE CONNECTOR & GROUNDING TAIL THRU SLOT AT BOTTOM OF KEYPAD RECESS ON FRONT HOUSING (ITEM 11) ASSURING A SNUG FIT AGAINST THE LOWER EDGE OF THE RECESS AND MEMBRANE KEYPAD. A SMALL GAP BETWEEN THE MEMBRANE TAILS AND THE FRONT HOUSING SHOULD BE FILLED WITH RTV AND SMOOTHED FLAT USING EDGE OF CARD STOCK ALLOWING SPACE FOR GRAPHIC OVERLAY TO BE INSTALLED.

4. ATTACH DOOR SUBASSY. (ITEM 1) TO FRONT HOUSING (ITEM 11) USING THE DOOR PIN (ITEM 15). SLIDE PIN THRU BOTTOM CORNER OF HOUSING UP THRU NYLON WASHER (ITEM 8) AND DOOR HINGE UNTIL IT SEATS IN THE UPPER HINGE HOLE OF THE FRONT HOUSING. INSTALL #8–32 SET SCREW (ITEM 17) TO HOLD HINGE PIN IN PLACE.

5. ASSEMBLE IVPAB016 (ITEM 17) FREE FLOW SWITCH TO BACK OF AS120 (ITEM 4) CARRIER AS SHOWN, PEELING BACK DOUBLE SIDED TAPE AND PRESSING INTO PLACE USING SLOT ON PCB MATCHED TO RIB ON PLASTIC CARRIER (SEE DETAIL A). ROUTE WIRES THROUGH HOLE IN CHASSIS FRONT (INSIDE CARRIER CUTOUT) AND PULL THROUGH FROM REAR OF FRONT HOUSING.

6. WHEN INSTALLING AS104 LATCH ASSEMBLY (ITEM 19) USE "RED LOCTITE" ON 2 SCREWS, NS19 (ITEM 21).

*AF ASSEMBLY LABEL CHART (LANGUAGE VERSIONS)
USE IRM BOM'S FOR EACH AF ASSM NUMBER

LANGUAGE	AF ASSM PN	ITEM 18	ITEM 77	ITEM 78	ITEM 102	ITEM 103	ITEM 109	ITEM 111
ENGLISH	AF38600P	LB2011	LB2004	LB2031	LB2033	LB2003	LB2010	LB2005
GERMAN	AF38600PG	LB2011	LB2004	LB2031	LB2002G	LB2003G	LB2010	LB2005
FRENCH	AF38600PF	LB2011	LB2004	LB2031	LB2033	LB2003	LB2010	LB2005
JAPANESE	AF38600PJ	LB2011J	LB2004	LB2031		LB2003J	LB2010J	LB2005J
ITALIAN	AF38600PI	LB2011I	LB2004I	LB2031I	LB2033I	LB2003I	LB2010I	LB2005
SPANISH	AF38600PS	LB2011S	LB2004	LB2031S	LB2033S	LB2003S	LB2010S	LB2005S
SWEDISH	AF38600PSW	LB2011SW	LB2004	LB2031SW	LB2033SW	LB2003SW	LB2010SW	LB2005
CHINESE	AF38610PCH	LB2011	LB2004CH	LB2031	LB2033	LB2003CH	LB2010	LB2005

ITEM	PART NO.	QTY.	DESCRIPTION
21	NS19	2	SCREW, #4–40 X 3/8LG. PHMS, XR–SS316
20	IVPAB016	1	PCBA, FLOW STOP SWITCH, 3850/3851
19	AS104	1	SUBASSEMBLY, SPRING LATCH
18	LB2011	1	SEE LABEL CHART FOR LANGUAGE OPTION
17	NS34	1	SCREW, SET, #8–32 X 1/4LG. SOC. CP. PT.–SS316
16	HM17	2	SPRING, SPRING ARM COMPRESSION
15	HM13	1	HINGE PIN, DOOR, MRIVP
14	NS01	2	SCREW, #2–56 X 3/16LG. PHMS, XR–SS316
13	NS11	23	SCREW, #4–40 X 3/16LG. PHMS, XR–SS316
12	NS17	8	SCREW, #4–40 X 1/4LG. FHMS, XR–SS316
11	IVP1105	1	CHASSIS, FRONT HOUSING, 3860
10	IVP1022	1	CLIP, TUBE RETAINER
9	IVP1046	1	SPRING ARM ACTUATOR, FREE FLOW PREVENTER
8	NW02	1	WASHER, FLAT, .250 OD. X .140 ID. X .032 THK.–NY, KEYSTONE #3132
7	AS120	1	SUB–ASSEM, FLOW CARRIER, SPRING LOAD
6	IVP1070	1	GASKET, PUMP FINGER (URETHANE)
5	IVP1014	1	SEAL RING, PUMP FINGER
4			
3			
2	IVP1091	1	MEMBRANE KEYPAD, 10 KEY 3860/3865
1	AS112AOP	1	SUB–ASSEM, FRNT DR, 3860 LATCH, OPTIC

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Rev.	Description	Date
E	ECN 000478	25APR13
D	ECN 000457	20NOV12
C	ECN 000387	03AUG11
B	ECN 000380	12MAY11
A	ECN 000368	28FEB11

Revision History

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°
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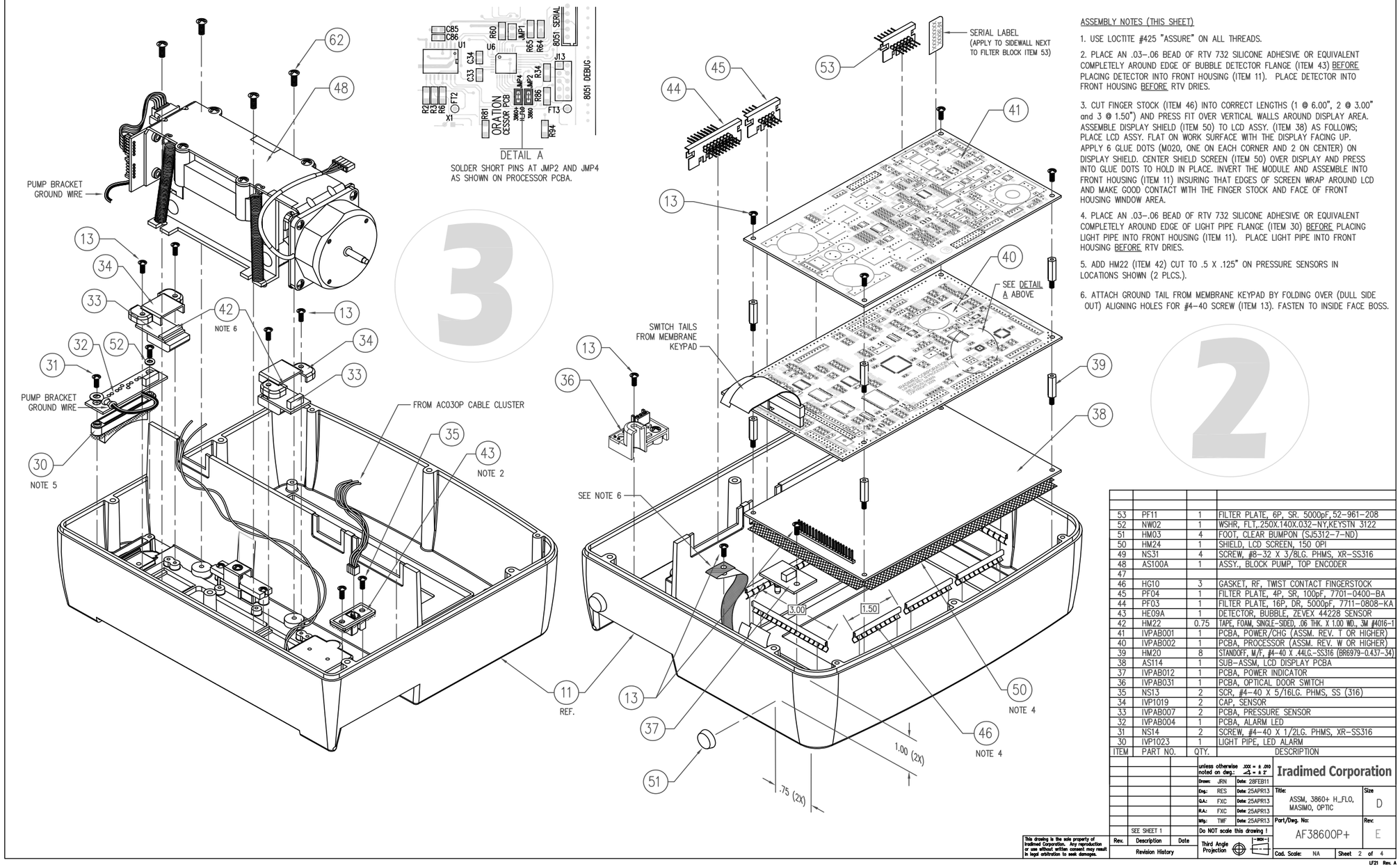
M.A.: FXC Date: 25APR13
Mfg.: TMF Date: 25APR13
Do NOT scale this drawing !
Third Angle Projection

Iradimed Corporation

Title: ASSM, 3860+ H_FLO, MASIMO, OPTIC
Size: D
Part/Dwg. No: AF3860OP+
Rev.: E
Cad. Scale: NA
Sheet 1 of 4

LF21 Rev. A

Figure 5-7. 3860+ MR Pump Assembly AF3860OP+ Sheet 1 of 4*



ASSEMBLY NOTES (THIS SHEET)

1. USE LOCTITE #425 "ASSURE" ON ALL THREADS.

2. PLACE AN .03–.06 BEAD OF RTV 732 SILICONE ADHESIVE OR EQUIVALENT COMPLETELY AROUND EDGE OF BUBBLE DETECTOR FLANGE (ITEM 43) BEFORE PLACING DETECTOR INTO FRONT HOUSING (ITEM 11). PLACE DETECTOR INTO FRONT HOUSING BEFORE RTV DRIES.

3. CUT FINGER STOCK (ITEM 46) INTO CORRECT LENGTHS (1 @ 6.00", 2 @ 3.00" and 3 @ 1.50") AND PRESS FIT OVER VERTICAL WALLS AROUND DISPLAY AREA. ASSEMBLE DISPLAY SHIELD (ITEM 50) TO LCD ASSY. (ITEM 38) AS FOLLOWS; PLACE LCD ASSY. FLAT ON WORK SURFACE WITH THE DISPLAY FACING UP. APPLY 6 GLUE DOTS (M020, ONE ON EACH CORNER AND 2 ON CENTER) ON DISPLAY SHIELD. CENTER SHIELD SCREEN (ITEM 50) OVER DISPLAY AND PRESS INTO GLUE DOTS TO HOLD IN PLACE. INVERT THE MODULE AND ASSEMBLE INTO FRONT HOUSING (ITEM 11) INSURING THAT EDGES OF SCREEN WRAP AROUND LCD AND MAKE GOOD CONTACT WITH THE FINGER STOCK AND FACE OF FRONT HOUSING WINDOW AREA.

4. PLACE AN .03–.06 BEAD OF RTV 732 SILICONE ADHESIVE OR EQUIVALENT COMPLETELY AROUND EDGE OF LIGHT PIPE FLANGE (ITEM 30) BEFORE PLACING LIGHT PIPE INTO FRONT HOUSING (ITEM 11). PLACE LIGHT PIPE INTO FRONT HOUSING BEFORE RTV DRIES.

5. ADD HM22 (ITEM 42) CUT TO .5 X .125" ON PRESSURE SENSORS IN LOCATIONS SHOWN (2 PLCS.).

6. ATTACH GROUND TAIL FROM MEMBRANE KEYPAD BY FOLDING OVER (DULL SIDE OUT) ALIGNING HOLES FOR #4–40 SCREW (ITEM 13). FASTEN TO INSIDE FACE BOSS.

ITEM	PART NO.	QTY.	DESCRIPTION
53	PF11	1	FILTER PLATE, 6P, SR. 5000pF, 52–961–208
52	NW02	1	WSHR, FLT,.250X.140X.032–NY,KEYSTN 3122
51	HM03	4	FOOT, CLEAR BUMPON (SJ5312–7–ND)
50	HM24	1	SHIELD, LCD SCREEN, 150 OPI
49	NS31	4	SCREW, #8–32 X 3/8LG. PHMS, XR–SS316
48	AS100A	1	ASSY., BLOCK PUMP, TOP ENCODER
47			
46	HG10	3	GASKET, RF, TWIST CONTACT FINGERSTOCK
45	PF04	1	FILTER PLATE, 4P, SR, 100pF, 7701–0400–BA
44	PF03	1	FILTER PLATE, 16P, DR, 5000pF, 7711–0808–KA
43	HE09A	1	DETECTOR, BUBBLE, ZEVEX 44228 SENSOR
42	HM22	0.75	TAPE, FOAM, SINGLE–SIDED, .06 THK. X 1.00 WD., 3M #4016–1
41	IVPAB001	1	PCBA, POWER/CHG (ASSM. REV. T OR HIGHER)
40	IVPAB002	1	PCBA, PROCESSOR (ASSM. REV. W OR HIGHER)
39	HM20	8	STANDOFF, M/F, #4–40 X .44LG.–SS316 (BR6979–0.437–34)
38	AS114	1	SUB–ASSM, LCD DISPLAY PCBA
37	IVPAB012	1	PCBA, POWER INDICATOR
36	IVPAB031	1	PCBA, OPTICAL DOOR SWITCH
35	NS13	2	SCR, #4–40 X 5/16LG. PHMS, SS (316)
34	IVP1019	2	CAP, SENSOR
33	IVPAB007	2	PCBA, PRESSURE SENSOR
32	IVPAB004	1	PCBA, ALARM LED
31	NS14	2	SCREW, #4–40 X 1/2LG. PHMS, XR–SS316
30	IVP1023	1	LIGHT PIPE, LED ALARM

unless otherwise noted on dwg.: .XXX = ± .010, ∠s = ± 2°

Drawn: JRN Date: 28FEB11
Eng.: RES Date: 25APR13
Q.A.: FXC Date: 25APR13
R.A.: FXC Date: 25APR13
Mfg.: TWF Date: 25APR13

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Third Angle Projection

Iradimed Corporation

Title: ASSM, 3860+ H_FLO, MASIMO, OPTIC

Size: D

Part/Dwg. No: AF3860OP+

Rev: E

Cad. Scale: NA Sheet 2 of 4

LF21 Rev. A

SEE SHEET 1

Rev.	Description	Date
	Revision History	

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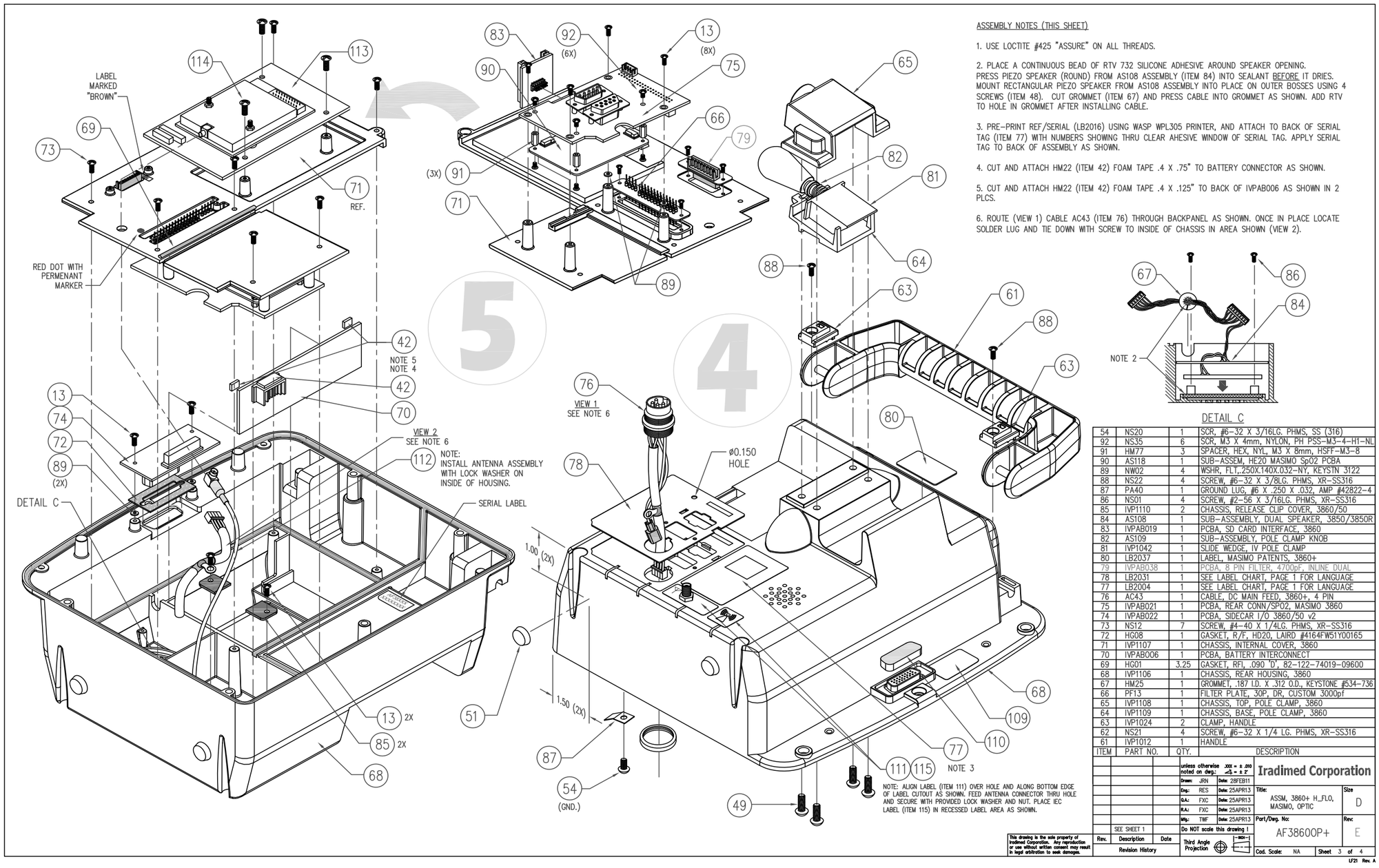
Figure 5-8. 3860+ MR Pump Assembly AF3860OP+ Sheet 2 of 4*


ASSEMBLY NOTES (THIS SHEET)
1. USE LOCTITE #425 "ASSURE" ON ALL THREADS.
2. PLACE A CONTINUOUS BEAD OF RTV 732 SILICONE ADHESIVE AROUND SPEAKER OPENING. PRESS PIEZO SPEAKER (ROUND) FROM AS108 ASSEMBLY (ITEM 84) INTO SEALANT BEFORE IT DRIES. MOUNT RECTANGULAR PIEZO SPEAKER FROM AS108 ASSEMBLY INTO PLACE ON OUTER BOSSES USING 4 SCREWS (ITEM 48). CUT GROMMET (ITEM 67) AND PRESS CABLE INTO GROMMET AS SHOWN. ADD RTV TO HOLE IN GROMMET AFTER INSTALLING CABLE.
3. PRE-PRINT REF/SERIAL (LB2016) USING WASP WPL305 PRINTER, AND ATTACH TO BACK OF SERIAL TAG (ITEM 77) WITH NUMBERS SHOWING THRU CLEAR AHESIVE WINDOW OF SERIAL TAG. APPLY SERIAL TAG TO BACK OF ASSEMBLY AS SHOWN.
4. CUT AND ATTACH HM22 (ITEM 42) FOAM TAPE .4 X .75" TO BATTERY CONNECTOR AS SHOWN.
5. CUT AND ATTACH HM22 (ITEM 42) FOAM TAPE .4 X .125" TO BACK OF IVPAB006 AS SHOWN IN 2 PLCS.
6. ROUTE (VIEW 1) CABLE AC43 (ITEM 76) THROUGH BACKPANEL AS SHOWN. ONCE IN PLACE LOCATE SOLDER LUG AND TIE DOWN WITH SCREW TO INSIDE OF CHASSIS IN AREA SHOWN (VIEW 2).
LABEL MARKED "BROWN"
RED DOT WITH PERMENANT MARKER
REF.
NOTE 5
NOTE 4
VIEW 2
SEE NOTE 6
NOTE: INSTALL ANTENNA ASSEMBLY WITH LOCK WASHER ON INSIDE OF HOUSING.
SERIAL LABEL
DETAIL C
2X
2X
(2X)
(6X)
(8X)
(3X)
VIEW 1
SEE NOTE 6
ø0.150 HOLE
1.00 (2X)
1.50 (2X)
(GND.)
NOTE 3
NOTE: ALIGN LABEL (ITEM 111) OVER HOLE AND ALONG BOTTOM EDGE OF LABEL CUTOUT AS SHOWN. FEED ANTENNA CONNECTOR THRU HOLE AND SECURE WITH PROVIDED LOCK WASHER AND NUT. PLACE IEC LABEL (ITEM 115) IN RECESSED LABEL AREA AS SHOWN.
NOTE 2
DETAIL C
5
4

ITEM	PART NO.	QTY.	DESCRIPTION
54	NS20	1	SCR, #6-32 X 3/16LG. PHMS, SS (316)
92	NS35	6	SCR, M3 X 4mm, NYLON, PH PSS-M3-4-H1-NL
91	HM77	3	SPACER, HEX, NYL, M3 X 8mm, HSFF-M3-8
90	AS118	1	SUB-ASSEM, HE20 MASIMO Sp02 PCBA
89	NW02	4	WSHR, FLT,.250X.140X.032-NY, KEYSTN 3122
88	NS22	4	SCREW, #6-32 X 3/8LG. PHMS, XR-SS316
87	PA40	1	GROUND LUG, #6 X .250 X .032, AMP #42822-4
86	NS01	4	SCREW, #2-56 X 3/16LG. PHMS, XR-SS316
85	IVP1110	2	CHASSIS, RELEASE CLIP COVER, 3860/50
84	AS108	1	SUB-ASSEMBLY, DUAL SPEAKER, 3850/3850R
83	IVPAB019	1	PCBA, SD CARD INTERFACE, 3860
82	AS109	1	SUB-ASSEMBLY, POLE CLAMP KNOB
81	IVP1042	1	SLIDE WEDGE, IV POLE CLAMP
80	LB2037	1	LABEL, MASIMO PATENTS, 3860+
79	IVPAB038	1	PCBA, 8 PIN FILTER, 4700pF, INLINE DUAL
78	LB2031	1	SEE LABEL CHART, PAGE 1 FOR LANGUAGE
77	LB2004	1	SEE LABEL CHART, PAGE 1 FOR LANGUAGE
76	AC43	1	CABLE, DC MAIN FEED, 3860+, 4 PIN
75	IVPAB021	1	PCBA, REAR CONN/SP02, MASIMO 3860
74	IVPAB022	1	PCBA, SIDECAR I/O 3860/50 v2
73	NS12	7	SCREW, #4-40 X 1/4LG. PHMS, XR-SS316
72	HG08	1	GASKET, R/F, HD20, LAIRD #4164FW51Y00165
71	IVP1107	1	CHASSIS, INTERNAL COVER, 3860
70	IVPAB006	1	PCBA, BATTERY INTERCONNECT
69	HG01	3.25	GASKET, RFI, .090 'D', 82-122-74019-09600
68	IVP1106	1	CHASSIS, REAR HOUSING, 3860
67	HM25	1	GROMMET, .187 I.D. X .312 O.D., KEYSTONE #534-736
66	PF13	1	FILTER PLATE, 30P, DR, CUSTOM 3000pf
65	IVP1108	1	CHASSIS, TOP, POLE CLAMP, 3860
64	IVP1109	1	CHASSIS, BASE, POLE CLAMP, 3860
63	IVP1024	2	CLAMP, HANDLE
62	NS21	4	SCREW, #6-32 X 1/4 LG. PHMS, XR-SS316
61	IVP1012	1	HANDLE

unless otherwise noted on dwg.: .XXX = ± .010, ∠ = ± 2°

Iradimed Corporation

Drawn:	JRN	Date: 28FEB11
Eng:	RES	Date: 25APR13
Q.A.:	FXC	Date: 25APR13
R.A.:	FXC	Date: 25APR13
Mfg:	TWF	Date: 25APR13

Title: ASSM, 3860+ H_FLO, MASIMO, OPTIC

Size: D

Part/Dwg. No: AF3860OP+

Rev: E

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SEE SHEET 1

Third Angle Projection

Cad. Scale: NA

Sheet 3 of 4

Rev.	Description	Date

Revision History

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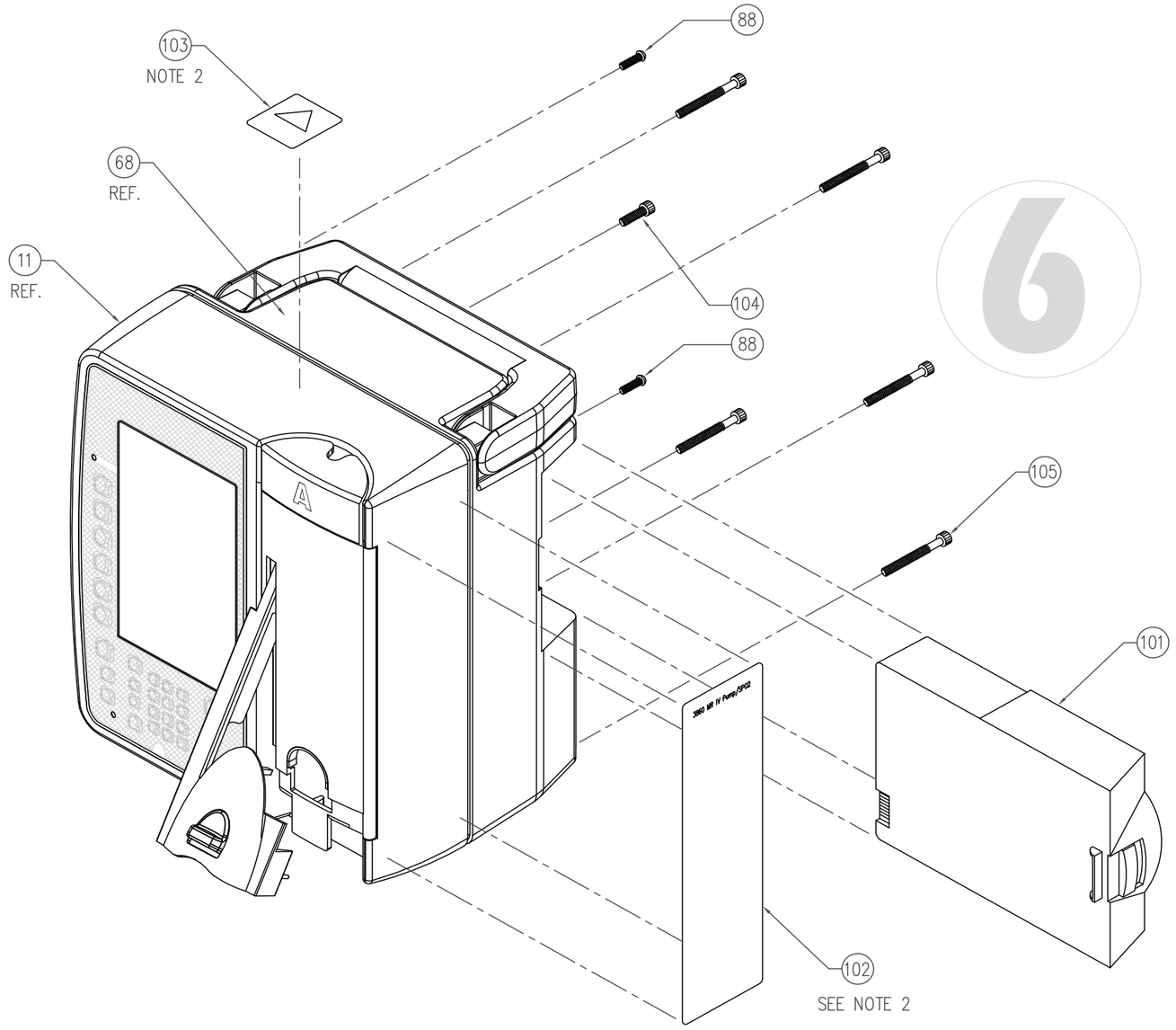
LF21 Rev. A

Figure 5-9. 3860+ MR Pump Assembly AF3860OP+ Sheet 3 of 4*



ASSEMBLY NOTES (THIS SHEET)

1. USE LOCTITE #425 "ASSURE" ON ALL THREADS.

2. ATTACH LABEL (ITEM 102) TO SIDE OF FRONT HOUSING (ITEM 11) CENTERED AS SHOWN.

3. ATTACH LABEL (ITEM 103) TO TOP OF FRONT HOUSING (ITEM 11) CENTERED AS SHOWN AND LOCATED .25 ±.06 FROM SEAM.

BATTERY CHART (LANGUAGE VERSIONS)
USE IRM BOM'S FOR EACH AF ASSM NUMBER

LANGUAGE	AF ASSM PN	ITEM 101 BATTERY
ENGLISH	AF38600P	1133
GERMAN	AF38600PG	1133
FRENCH	AF38600PF	1133
JAPANESE	AF38600PJ	1133J
ITALIAN	AF38600PI	1133I
SPANISH	AF38600PS	1133S
SWEDISH	AF38600PSW	1133SW
CHINESE	AF38610PCH	1133

ITEM	PART NO.	QTY.	DESCRIPTION
115	LB2026	1	LABEL, IEC 60417 SYMBOL, .75" X .75"
114	NS21	3	SCREW, #6-32 X 1/4LG. PHMS, XR-SS316
113	IVPAB015	1	PCBA, RADIO MOUNT/ INTERCONNECT
112	AC28	1	CABLE, ANT., RG178, AEROCOMM 1300-00023
111	LB2005	1	SEE LABEL CHART, PAGE 1 FOR LANGUAGE
110	HM41	1	DB15F DUST CAP, SOCKET, 538-DA-59-20
109	LB2010	1	SEE LABEL CHART, PAGE 1 FOR LANGUAGE
108	HG07	3.75"	GASKET, .02 X .157, FAB/FOAM, PSA
107			
106			
105	NS33	5	#8-32 X 1-1/2LG. SHCS-SS316
104	NS32	3	#8-32 X 1/2LG. SHCS-SS316
103	LB2003	1	SEE LABEL CHART, PAGE 1 FOR LANGUAGE
102	LB2033	1	SEE LABEL CHART, PAGE 1 FOR LANGUAGE
101	1133	1	SEE BATTERY CHART THIS PAGE FOR LANGUAGE

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Rev.	Description	Date
	SEE SHEET 1	

Revision History

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Drawn:	JRN	Date: 28FEB11
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Q.A.:	FXC	Date: 25APR13
R.A.:	FXC	Date: 25APR13
Mfg.:	TWF	Date: 25APR13

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Third Angle Projection

Iradimed Corporation

Title: ASSM, 3860+ H_FLO, MASIMO, OPTIC

Size: D

Part/Dwg. No: AF3860OP+

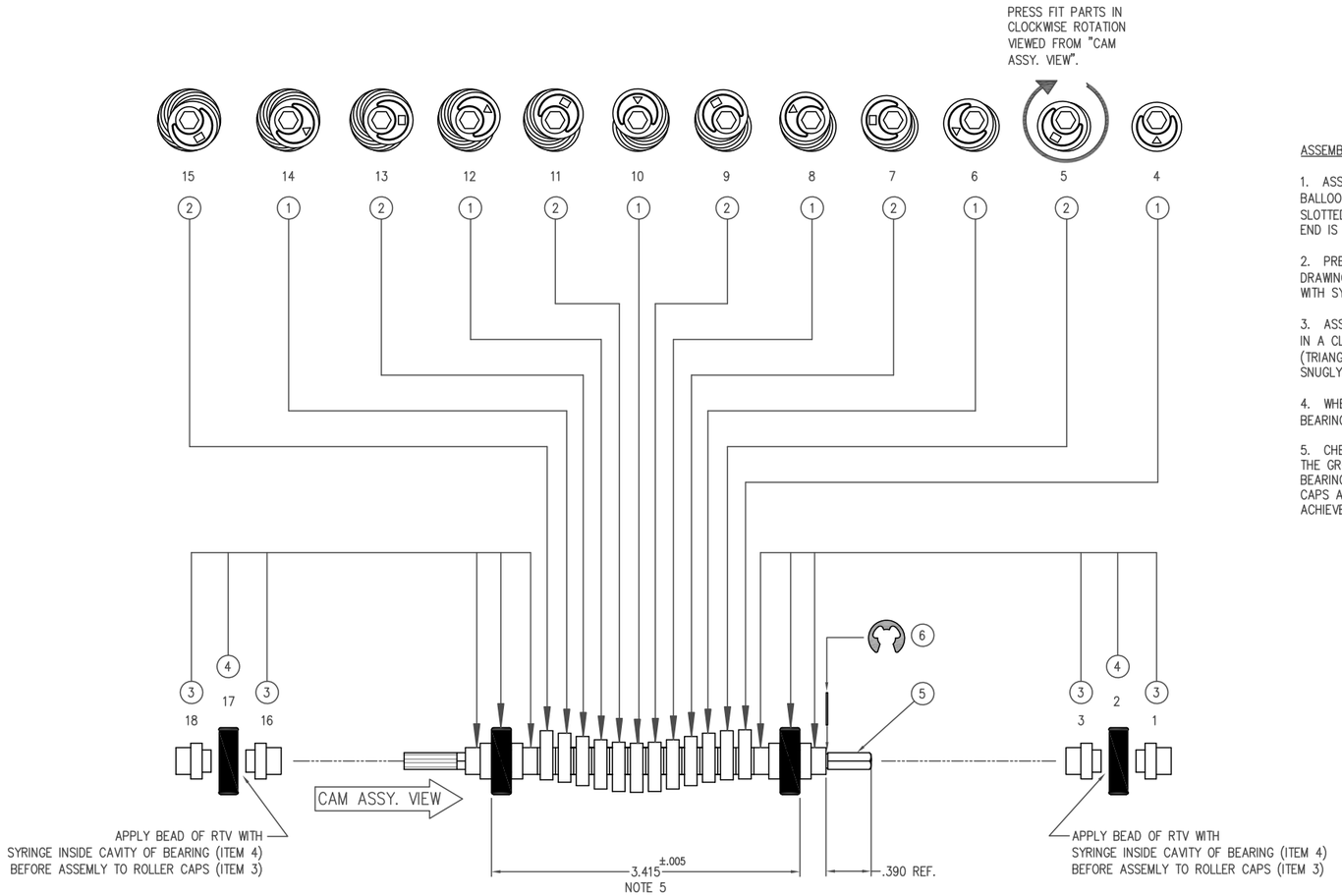
Rev.: E

Cad. Scale: NA

Sheet 4 of 4

LF21 Rev. A

Figure 5-10. 3860+ MR Pump Assembly AF3860OP+ Sheet 4 of 4*


PRESS FIT PARTS IN CLOCKWISE ROTATION VIEWED FROM "CAM ASSY. VIEW".
15 14 13 12 11 10 9 8 7 6 5 4
2 1 2 1 2 1 2 1 2 1 2 1
3 4 3
18 17 16
3 2 3
1
6
5
CAM ASSY. VIEW
APPLY BEAD OF RTV WITH SYRINGE INSIDE CAVITY OF BEARING (ITEM 4) BEFORE ASSEMLY TO ROLLER CAPS (ITEM 3)
APPLY BEAD OF RTV WITH SYRINGE INSIDE CAVITY OF BEARING (ITEM 4) BEFORE ASSEMLY TO ROLLER CAPS (ITEM 3)
3.415 ±.005
NOTE 5
.390 REF.

ASSEMBLY NOTES:

1. ASSEMBLE CAM SHAFT AS FOLLOWS, REFER TO THE SEQUENCE NUMBERS (WITHOUT BALLOONS), ALL PARTS ARE "PRESS FIT"; SNAP RETAINER RING (ITEM 6, NR01) ONTO CAM AT SLOTTED AREA. PRESS ONE ROLLER CAP (ITEM 3) ONTO CAM SHAFT (ITEM 5) SO THAT THE END IS PRESSED FIRMLY UP AGAINST RETAINING RING.

2. PRESS ONE BEARING (ITEM 4) ONTO THE SHAFT FROM THE LEFT END AS SHOWN ON DRAWING ("CAM ASSY. VIEW"). ADD ANOTHER ROLLER CAP (ITEM 3). BE SURE TO ADD RTV WITH SYRINGE AS SHOWN.

3. ASSEMBLE THE CAMS, SIX EACH (ITEMS 1 & 2) IN THE SEQUENCE SHOWN, ROTATING EACH IN A CLOCKWISE DIRECTION FROM THE "CAM ASSY. VIEW". USE THE IDENTIFYING MARKS (TRIANGLE OR SQUARE) TO INSURE PROPER ALTERNATING SEQUENCE. INSURE ALL PARTS FIT SNUGLY TO EACH OTHER TO AVOID TOLERANCE BUILD-UP.

4. WHEN ALL CAMS (12) HAVE BEEN ASSEMBLED, PRESS ON ONE ROLLER CAP (ITEM 3), BEARING (ITEM 4) AND ONE ROLLER CAP. BE SURE TO ADD RTV WITH SYRINGE AS SHOWN.

5. CHECK THE ASSEMBLY BY INSURING THAT THE FIRST ROLLER CAP REMAINS IN LINE WITH THE GROOVE ON THE SHAFT AND THAT THE OUTSIDE-TO-OUTSIDE DIMENSION BETWEEN BEARINGS IS AS SHOWN. IF THE DIMENSION IS OVER THE TOLERANCE RANGE, THE ROLLER CAPS AND BEARINGS MUST BE REMOVED. MODIFY THE INNER TWO ROLLER CAPS IN ORDER TO ACHIEVE THE PROPER DIMENSION. UNDER TOLERANCE RANGE IS ACCEPTABLE.

REF. ELECTRONIC B.O.M. NO. AS117 REV. A

ITEM	PART NO.	QTY.	DESCRIPTION
6	NR01	1	RING, RETAINING, E-18BC, BERY COPPER
5	IVP1009	1	SHAFT, CAM
4	HM11A	2	BRNG, NON-MAG, .25 X .75 X .219, SS316, R4A
3	IVP1003	4	CAP, ROLLER, WHITE PC
2	IVP1001B	6	CAM ROLLER, SQUARE INSERT, WHITE PC
1	IVP1001A	6	CAM ROLLER, TRIANGLE INSERT, WHITE PC

Rev.	Description	Date
A	ECN 000269	10DEC08

Revision History

Tolerances unless otherwise noted on dwg.: XX = ± .02, XXX = ± .010, ∠ = ± 2°

Drawn: JRN Date: 10DEC08
Eng.: RES Date: 10DEC08
Q.A.: FXC Date: 10DEC08
M.A.: FXC Date: 10DEC08
Mfg.: TWF Date: 10DEC08

Do NOT scale this drawing !

Third Angle Projection

Iradimed Corporation

Title: SUBASSEMBLY, CAM SHAFT, PUMP BLOCK

Size: D

Part/Dwg. No: AS117

Rev: A

Cad. Scale: NONE Sheet 1 of 1

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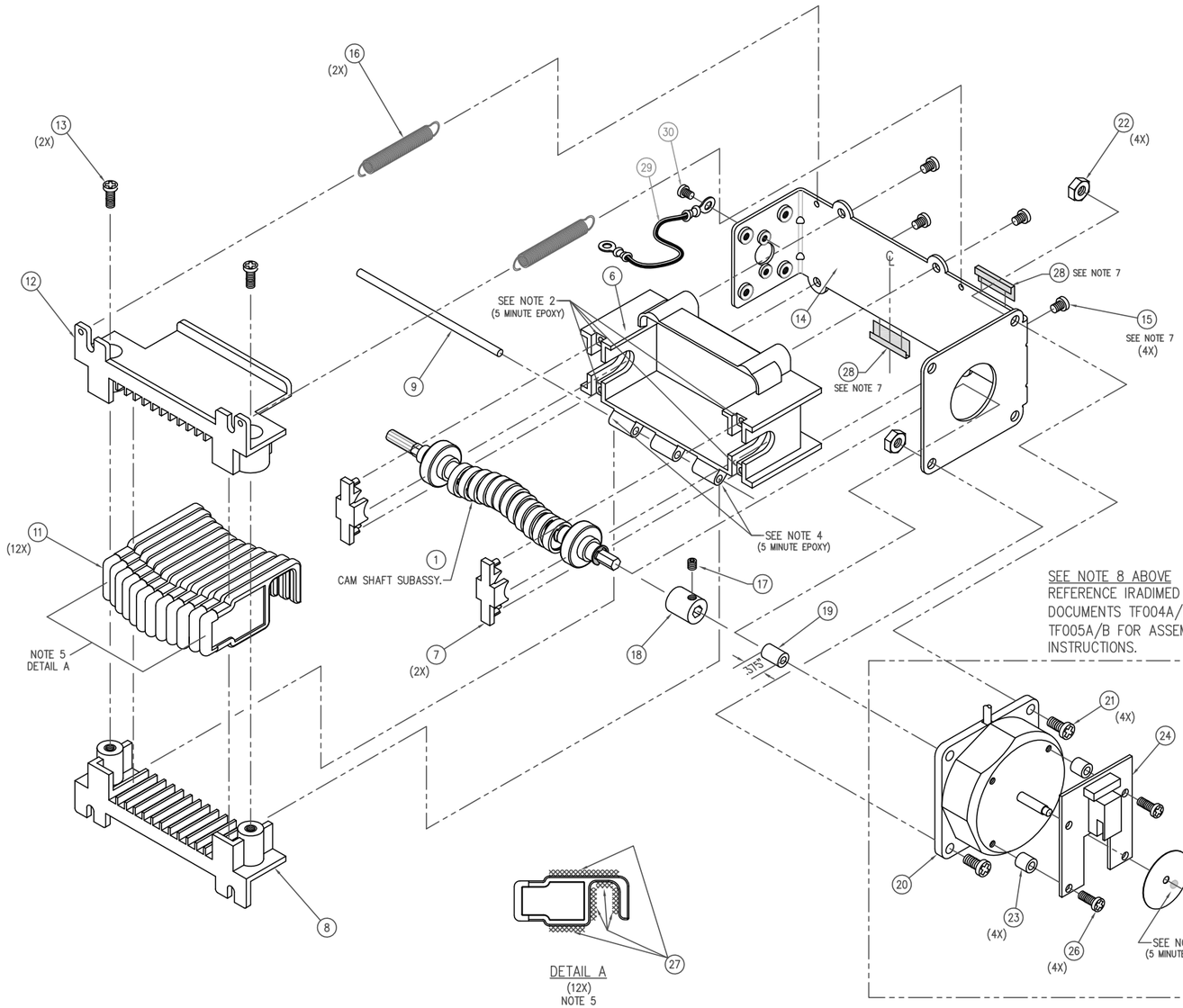
LF21 Rev. A

Figure 5-11. AS117 Cam Shaft Assembly, Pump Block



ASSEMBLY NOTES (THIS SHEET)

1. NOT ALL HARDWARE IS SHOWN FOR CLARITY.

2. USE LOCTITE #425 "ASSURE" ON ALL THREADS.

3. PLACE CAM SHAFT SUBASSY. (ITEM 1) INTO THE CAM SHAFT HOUSING (ITEM 6). BEARINGS MUST FLOAT FREELY IN THE GROOVES WITH NO END PRESSURE IN EITHER DIRECTION. APPLY 5 MINUTE EPOXY TO THE 4 PIN HOLE CAVITIES AS SHOWN IN CAM HOUSING (ITEM 6). PRESS TWO BEARING RETAINERS (ITEM 7) INTO PLACE. SPIN THE CAM SHAFT TO INSURE THAT IT ROTATES FREELY.

4. ATTACH LEFT SIDE BASE (ITEM 8) TO HOUSING (ITEM 6) USING HINGE PIN (ITEM 9). SECURE HINGE PIN IN PLACE WITH 5 MINUTE EPOXY ADHESIVE OR EQUIV. ON BOTH ENDS TO ENSURE PIN DOES NOT FALL OUT.

5. PLACE 12 PRESSURE FINGERS (ITEM 11) INTO GROOVES IN LEFT SIDE BASE (ITEM 8) AS SHOWN. ADD A THIN FILM OF RHEOLUBE LUBRICANT (ITEM 27) TO THE AREAS OF THE FINGERS THAT WILL CONTACT SURFACES DURING MOVEMENT AS SHOWN IN DETAIL A.

6. ASSEMBLE RIGHT SIDE BASE (ITEM 12), ALIGNING FINGERS IN THEIR RESPECTIVE POSITIONS, TO THE LEFT SIDE BASE (ITEM 8) USING TWO #6-32 X 3/8 LG. SCREWS (ITEM 13).

7. APPLY 2 1" STRIPS OF #22 KAPTON TAPE (ITEM 28) TO EDGES OF MOUNTING BRACKET IN AREAS SHOWN. ATTACH MOUNTING BRACKET (ITEM 14) TO BLOCK SUBASSEMBLY USING FOUR #6-32 X 3/16 LG. SCREWS (ITEM 15). DO NOT TIGHTEN SCREWS UNTIL AFTER STEP 9 (MOTOR TO BRACKET ASSEMBLY). ADD TWO SPRINGS (ITEM 16) BETWEEN THE BLOCK SUBASSEMBLY AND MOUNTING BRACKET AS SHOWN.

8. ASSEMBLE PUMP MOTOR AND ENCODER PER TF004A/B (ENCODER DISC ASSEMBLY) AND TF005A/B (ENCODER PCBA ALIGNMENT INSTRUCTIONS) USING PARTS CALLED OUT ON BOM AND MATCHED WITH ITEM NUMBERS SHOWN. PLACE A SMALL AMOUNT OF 5 MINUTE EPOXY AT TOP OF ENCODER PIN AS SHOWN TO ENSURE ENCODER WHEEL ADHEASION.

9. ASSEMBLE #6-32 X 1/8 LG. SET SCREW (ITEM 17) INTO COUPLER (ITEM 18). PLACE TUBING (ITEM 19 CUT TO .375" IN LENGTH) AND COUPLER OVER SHAFT OF MOTOR (ITEM 20). ATTACH MOTOR TO MOUNTING BRACKET (ITEM 14) WITH FOUR #8-32 X 3/8 LG. SCREWS (ITEM 21) AND NUTS (ITEM 22) WHILE GUIDING COUPLER ONTO SHAFT OF CAM SHAFT SUBASSEMBLY. SLIDE COUPLER UNTIL IT TOUCHES THE TUBING AND TIGHTEN THE SET SCREW. TIGHTEN THE 4 MOTOR MOUNT SREWS AND NUTS (ITEMS 21 AND 22). FINISH ASSEMBLY BY TIGHTENING THE 4 SCREWS (ITEM 15) HOLDING CAM ASSEMBLY TO MOTOR MOUNT BRACKET.

REF. ELECTRONIC B.O.M. NO. AS100 REV. J

30	NS11	1	SCR, #4-40 X 3/16LG. PHMS, SS (316)
29	AC29	1	CABLE, GND TAB, 3850/60 3851/61 3855/65
28	M031	2	TAPE, #22 KAPTON, 1", ROLL, SHERCON
27	M001	.001	LUBRICANT, RHEOLUBE 362HM, 100Gm
26	NS24	4	SCR, #6-32 X 1/2 LG. PHMS, SS (316)
25	HE08	1	ENCODER DISC, 1000PPR, BEI MOD80-554
24	IVPAB003	1	PCBA, ROTARY OPTICAL ENCODER
23	HM04	4	SPACER, #6 X .250 LG-AL, 3464K-ND
22	NN03	4	NUT, HEX, #8-32 REG SERIES-SS (316)
21	NS31	4	SCR, #8-32 X 3/8 LG. PHMS, SS (316)
20	IVP1004	1	MOTOR, FRICTION C45-14
19	HM34	.375"	TUBING, SI, 1/8 X 1/4, U.S. PLASTICS 54031
18	IVP1076	1	COUPLER, 3/16 HEX SHAFT, W/SET SCREW
17	NS23	1	SCR,, SET, #6-32 X 1/8 LG, SOC.CP.PT-SS
16	HM10	2	SPRING, 1.08 LB/IN, EXTENSION, PUMP BLK.
15	NS20	4	SCR, #6-32 X 3/16 LG. PHMS, SS (316)
14	IVP1007	1	MOUNTING BRACKET, BLOCK PUMP
13	NS22	2	SCR, #6-32 X 3/8 LG. PHMS, SS (316)
12	IVP1005	1	BASE, BLOCK PUMP, RIGHT SIDE
11	IVP1002	12	FINGER, PRESSURE, WHITE PC
9	HM12	1	PIN, PUMP HINGE
8	IVP1006	1	BASE, BLOCK PUMP, LEFT SIDE
7	IVP1051	2	RETAINER, BEARING
6	IVP1050	1	HOUSING, CAMSHAFT, BLOCK PUMP
1	AS117	1	SUB-ASSEMBLY, CAM SHAFT, PUMP BLOCK
ITEM	PART NO.		DESCRIPTION

Rev.	Description	Date
J	ECN 000360	24NOV10
H	ECN 000350	06JUL10
G	ECN 000338	17FEB10
F	ECN 000269	10DEC08
E	ECN 000246	16APR08
D	ECN 000216	24JUL07
C	ECN 000126	20SEP06
A	ECN 000046	09FEB06

Revision History

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Q.A.: FXC Date: 24NOV10
R.A.: FXC Date: 24NOV10
Mfg.: TMF Date: 24NOV10

Do NOT scale this drawing !

Third Angle Projection

Iradimed Corporation

Title: SUBASSEMBLY, PUMP BLOCK
Size: D
Part/Dwg. No: AS100
Rev.: J
Cad. Scale: NONE
Sheet 1 of 1

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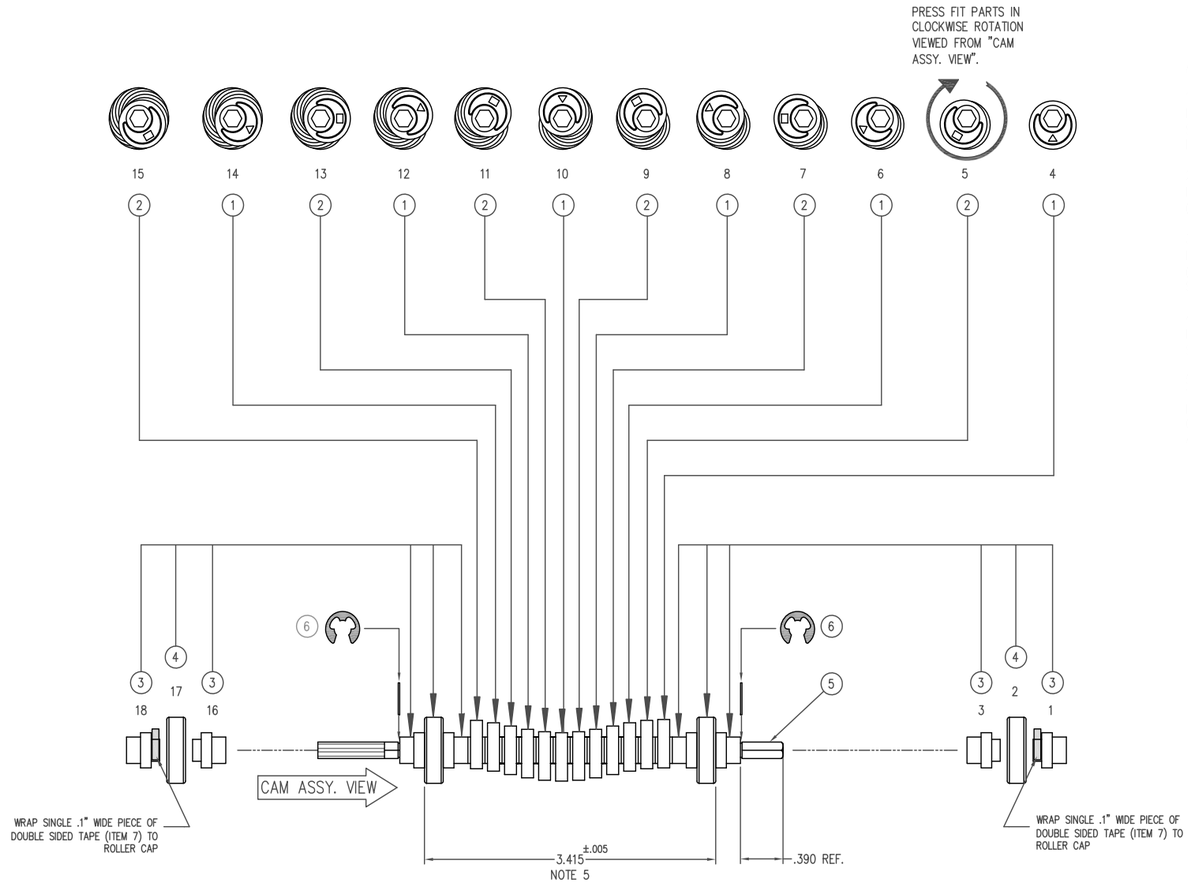
Figure 5-12. AS100 Pump Block Assembly

Figure 5-13. AS117*/AS100 Bill of Materials (Parts List)

Dwg Item	Part Number	QTY Required	Description
0001*	IVP1001A*	6	CAM ROLLER, TRIANGLE INSERT
0002*	IVP1001B*	6	CAM ROLLER, SQUARE INSERT
0003*	IVP1003*	4	CAP, ROLLER
0004*	HM11A*	2	BEARING, NON-MAG, 0.75 X.25 X.219, SS316
0005*	IVP1009*	1	SHAFT, CAM
0006*	NR01*	1	RING, RETAINING, E-18BC, BERY COPPER
0006	IVP1050	1	HOUSING, CAMSHAFT, BLOCK PUMP
0007	IVP1051	2	RETAINER, BEARING
0008	IVP1006	1	BASE, BLOCK PUMP, LEFT SIDE
0009	HM12	1	PIN, PUMP HINGE
0010	NM02	2	RING, RTNG, EXT. PUSH-ON, 0.125 SHAFT-SS
0011	IVP1002	12	FINGER, PRESSURE
0012	IVP1005	1	BASE, BLOCK PUMP, RIGHT SIDE
0013	NS22	2	SCREW, #6-32 x 3/8LG. PHMS, XR-SS316
0014	IVP1007	1	MOUNTING BRACKET, BLOCK PUMP
0015	NS20	4	SCREW, #6-32 X 3/16LG. PHMS, XR-SS316
0016	HM10	2	SPRING, 1.1LB.TNSN, A.S. #MKEE2400261750
0017	NS23	1	SCREW,SET,#6-32 X 1/8LG. SOC.CP.PT-SS316
0018	IVP1076	1	COUPLER, 3/16 HEX SHAFT, W/ SET SCREW
0019	HM34	0.001	TUBING, SI, 1/8 X 1/4, 54031 USP
0020	IVP1004	1	MOTOR, FRICTION
0021	NS31	4	SCREW, #8-32 x 3/8LG. PHMS, XR-SS316
0022	N003	4	NUT, HEX, #8-32 REG. SERIES-SS316
0023	HM04	4	SPACER, #6 X 0.250LG.-Al, #3464K-ND
0024	IVPAB003	1	PCBA, ROTARY OPTICAL ENCODER
0025	HE08	1	ENCODER DISC, BEI #MOD80-554, 1000PPR
0026	NS24	4	SCREW, #6-32 x 1/2", PHMS, XR-SS316
0028	M030	2"	TAPE, #22 KAPTON, 1/2", ROLL, SHERCON


PRESS FIT PARTS IN CLOCKWISE ROTATION VIEWED FROM "CAM ASSY. VIEW".
15 14 13 12 11 10 9 8 7 6 5 4
2 1 2 1 2 1 2 1 2 1 2 1
6 6
4 4
3 3 3 3 3 3
18 17 16 3 2 1
5
CAM ASSY. VIEW
WRAP SINGLE .1" WIDE PIECE OF DOUBLE SIDED TAPE (ITEM 7) TO ROLLER CAP
WRAP SINGLE .1" WIDE PIECE OF DOUBLE SIDED TAPE (ITEM 7) TO ROLLER CAP
3.415 +.005
NOTE 5
.390 REF.

ASSEMBLY NOTES:

1. ASSEMBLE CAM SHAFT AS FOLLOWS, REFER TO THE SEQUENCE NUMBERS (WITHOUT BALLOONS), ALL PARTS ARE "PRESS FIT"; SNAP RETAINER RING (ITEM 6, NR01) ONTO CAM AT SLOTTED AREA. PRESS ONE ROLLER CAP (ITEM 3) ONTO CAM SHAFT (ITEM 5) SO THAT THE END IS PRESSED FIRMLY UP AGAINST RETAINING RING.

2. PRESS ONE BEARING (ITEM 4) ONTO THE SHAFT FROM THE LEFT END AS SHOWN ON DRAWING ("CAM ASSY. VIEW"). ADD ANOTHER ROLLER CAP (ITEM 3). BE SURE TO ADD TAPE (ITEM 7) AS SHOWN.

3. ASSEMBLE THE CAMS, SIX EACH (ITEMS 1 & 2) IN THE SEQUENCE SHOWN, ROTATING EACH IN A CLOCKWISE DIRECTION FROM THE "CAM ASSY. VIEW". USE THE IDENTIFYING MARKS (TRIANGLE OR SQUARE) TO INSURE PROPER ALTERNATING SEQUENCE. INSURE ALL PARTS FIT SNUGLY TO EACH OTHER TO AVOID TOLERANCE BUILD-UP.

4. WHEN ALL CAMS (12) HAVE BEEN ASSEMBLED, PRESS ON ONE ROLLER CAP (ITEM 3), BEARING (ITEM 4) AND ONE ROLLER CAP. BE SURE TO ADD TAPE (ITEM 7) AS SHOWN. SNAP SECOND RETAINER RING (ITEM 6, NR01) ONTO CAM AT SECOND SLOTTED AREA.

5. CHECK THE ASSEMBLY BY INSURING THAT THE FIRST ROLLER CAP REMAINS IN LINE WITH THE GROOVE ON THE SHAFT AND THAT THE OUTSIDE-TO-OUTSIDE DIMENSION BETWEEN BEARINGS IS AS SHOWN. IF THE DIMENSION IS OVER THE TOLERANCE RANGE, THE ROLLER CAPS AND BEARINGS MUST BE REMOVED. MODIFY THE INNER TWO ROLLER CAPS IN ORDER TO ACHIEVE THE PROPER DIMENSION. UNDER TOLERANCE RANGE IS ACCEPTABLE.

REF. ELECTRONIC B.O.M. NO. AS117A REV. C

ITEM	PART NO.	QTY.	DESCRIPTION
7	M067	.2"	TAPE, TRANSFER, ROLL 2.3 MIL X 3/4", 3M
6	NR01	2	RING, RETAINING, E-18BC, BERY COPPER
5	IVP1009A	1	SHAFT, CAM, CUI ENCODER
4	HM11A	2	BRNG, NON-MAG, .25 X .75 X .219, SS316, R4A
3	IVP1003	4	CAP, ROLLER, WHITE PC
2	IVP1001B	6	CAM ROLLER, SQUARE INSERT, WHITE PC
1	IVP1001A	6	CAM ROLLER, TRIANGLE INSERT, WHITE PC

Rev.	Description	Date
C	ECN 000463	18JAN13
B	ECN 000461	14DEC12
A	ECN 000435	05SEP12

Revision History

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

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Q.A.: FXC Date: 18JAN13
M'fg: TWF Date: 18JAN13

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Third Angle Projection

Iradimed Corporation

Title: SUBASSM, CUI CAM SHAFT, PUMP BLOCK
Size: D
Part/Dwg. No: AS117A
Rev: C
Cad. Scale: NONE
Sheet 1 of 1

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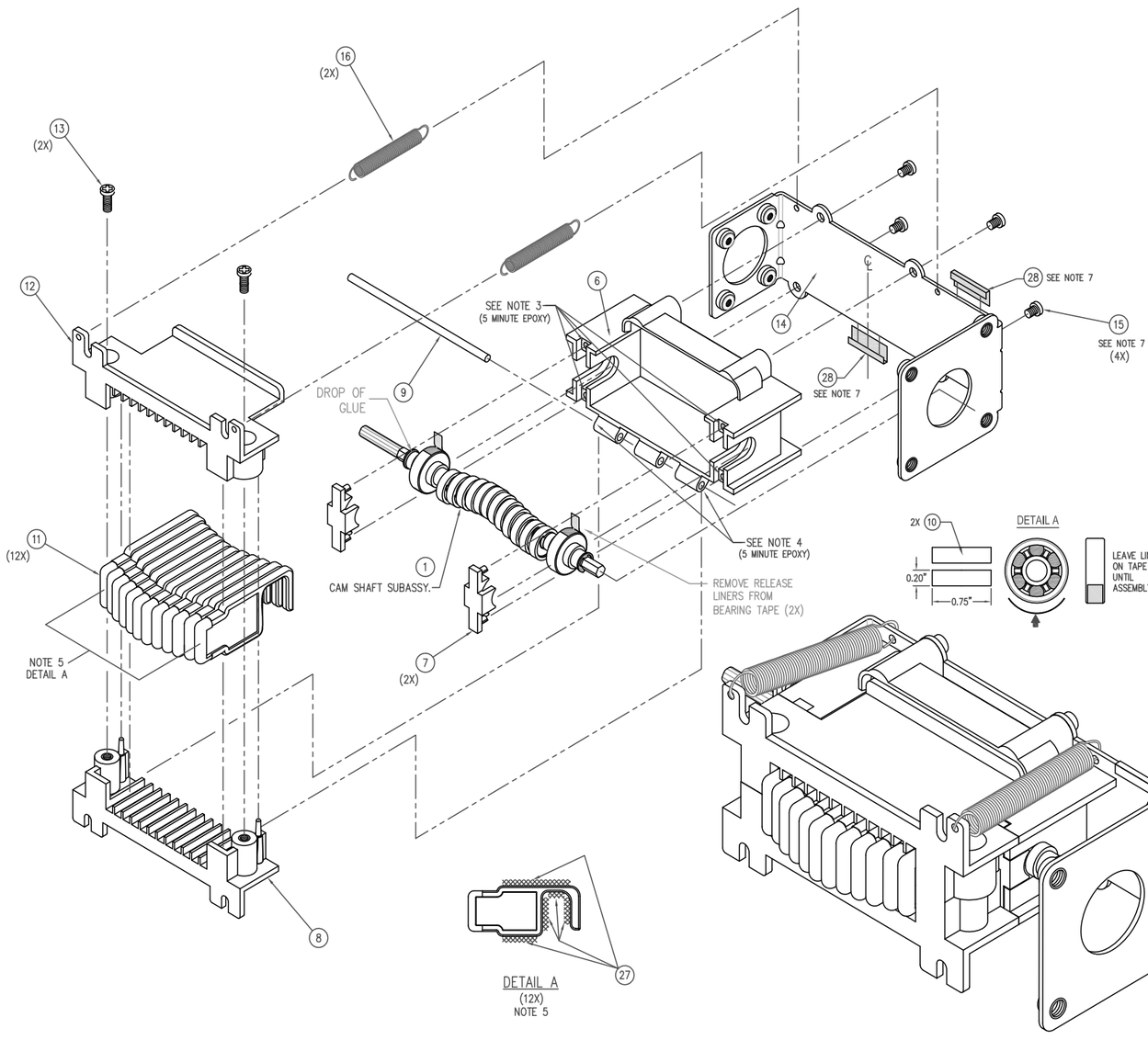
LF21 Rev. A

Figure 5-14. AS117A Cam Shaft Assembly



ASSEMBLY NOTES (THIS SHEET)

1. NOT ALL HARDWARE IS SHOWN FOR CLARITY.

2. USE LOCTITE #425 "ASSURE" ON ALL THREADS.

3. PRIOR TO ASSEMBLY ADD DOUBLE SIDED TAPE (ITEM 10) TO BOTTOM SIDE OF EACH BEARING AS SHOWN IN DETAIL "A". REMOVE TAPE RELEASE LINERS (2X) OFF OF BOTH BEARINGS AND PLACE CAM SHAFT SUB-ASSEMBLY (ITEM 1) INTO THE CAM SHAFT HOUSING (ITEM 6) AS SHOWN. APPLY 5 MINUTE EPOXY TO THE 4 PIN HOLE CAVITIES AS SHOWN IN CAM HOUSING (ITEM 6). PRESS THE TWO BEARING RETAINERS (ITEM 7) INTO PLACE. SPIN THE CAM SHAFT TO INSURE THAT IT ROTATES FREELY. ADD ONE DROP OF GLUE AT BEARING CAP AND C CLIP AS SHOWN.

4. ATTACH LEFT SIDE BASE (ITEM 8) TO HOUSING (ITEM 6) USING HINGE PIN (ITEM 9). SECURE HINGE PIN IN PLACE WITH 5 MINUTE EPOXY ADHESIVE OR EQUIV. ON BOTH ENDS TO ENSURE PIN DOES NOT FALL OUT.

5. PLACE 12 PRESSURE FINGERS (ITEM 11) INTO GROOVES IN LEFT SIDE BASE (ITEM 8) AS SHOWN. ADD A THIN FILM OF RHEOLUBE LUBRICANT (ITEM 27) TO THE AREAS OF THE FINGERS THAT WILL CONTACT SURFACES DURING MOVEMENT AS SHOWN IN DETAIL A.

6. ASSEMBLE RIGHT SIDE BASE (ITEM 12), ALIGNING FINGERS IN THEIR RESPECTIVE POSITIONS, TO THE LEFT SIDE BASE (ITEM 8) USING GUIDE PINS AND TWO #6-32 X 3/8 LG. SCREWS (ITEM 13).

7. APPLY 2 1" STRIPS OF #22 KAPTON TAPE (ITEM 28) TO EDGES OF MOUNTING BRACKET IN AREAS SHOWN. ATTACH MOUNTING BRACKET (ITEM 14) TO BLOCK SUBASSEMBLY USING FOUR #6-32 X 3/16 LG. SCREWS (ITEM 15). ADD TWO SPRINGS (ITEM 16) BETWEEN THE BLOCK SUBASSEMBLY AND MOUNTING BRACKET AS SHOWN.

REF. ELECTRONIC B.O.M. NO. AS132A REV. C

ITEM	PART NO.		DESCRIPTION
28	M031	2	TAPE, #22 KAPTON, 1", ROLL, SHERCON
27	M001	.001	LUBRICANT, RHEOLUBE 362HM, 1000m
16	HM10	2	SPRING, 1.08 LB/IN, EXTENSION, PUMP BLK.
15	NS20	4	SCR, #6-32 X 3/16 LG. PHMS, SS (316)
14	IVP1007A	1	MOUNTING BRACKET, CUI PUMP BLOCK
13	NS22	2	SCR, #6-32 X 3/8 LG. PHMS, SS (316)
12	IVP1005	1	BASE, BLOCK PUMP, RIGHT SIDE
11	IVP1002	12	FINGER, PRESSURE, WHITE PC
10	M067	1.50"	TAPE, TRANSFER, ROLL 2.3 MIL X 3/4", 3M
9	HM12	1	PIN, PUMP HINGE
8	IVP1006	1	BASE, BLOCK PUMP, LEFT SIDE
7	IVP1051	2	RETAINER, BEARING
6	IVP1050	1	HOUSING, CAMSHAFT, BLOCK PUMP
1	AS117A	1	SUB-ASSEMBLY, CUI CAM, PUMP BLOCK

Rev.	Description	Date
C	ECN 000463	18JAN13
B	ECN 000461	14DEC12
A	ECN 000435	05SEP12

Revision History

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

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M.A.: FXC Date: 18JAN13
Mfg.: TMF Date: 18JAN13

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Third Angle Projection

Iradimed Corporation

Title: SUBASSEMBLY, TOP ENCODER, PUMP BLOCK
Size: D
Part/Dwg. No: AS132A
Rev: C
Cad. Scale: NONE
Sheet 1 of 1

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Figure 5-15. AS132 Top Encoder Pump Block

ASSEMBLY NOTES:

1. USE LOCTITE #425 "ASSURE" ON ALL THREADS.

2. ASSEMBLE IVPAB043 PCBA (ITEM 7) AND GROUND WIRE (ITEM 9) TO TOP OF PUMP CHASSIS USING BRASS ALIGNMENT TOOL (TF016) TO CENTER PCBA TO SHAFT AND 2 #4–40 X 3/16" SCREWS (ITEM 8) AND 2 #4–40 FLAT HEAD SCREWS (ITEM 11).

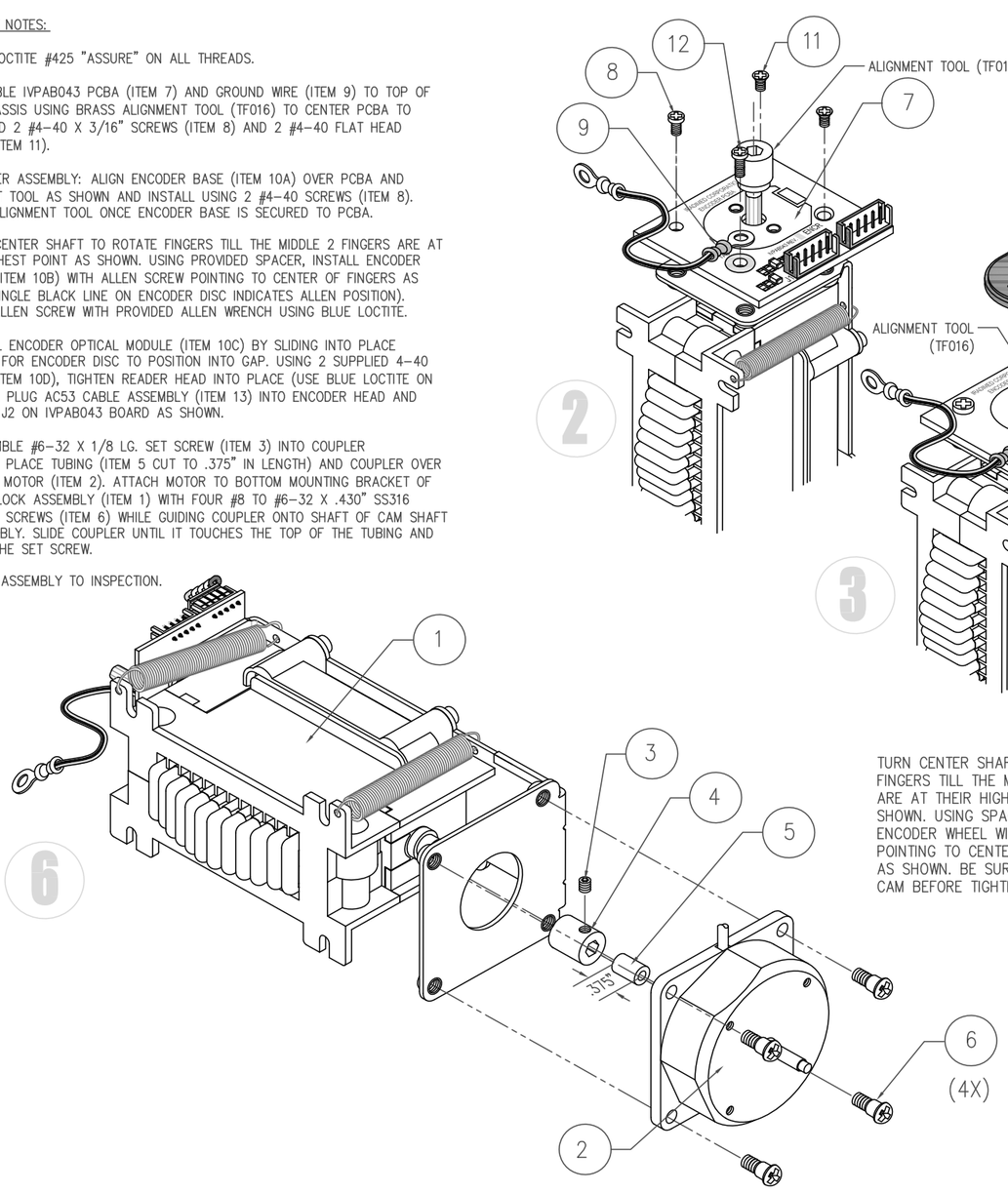
3. ENCODER ASSEMBLY: ALIGN ENCODER BASE (ITEM 10A) OVER PCBA AND ALIGNMENT TOOL AS SHOWN AND INSTALL USING 2 #4–40 SCREWS (ITEM 8). REMOVE ALIGNMENT TOOL ONCE ENCODER BASE IS SECURED TO PCBA.

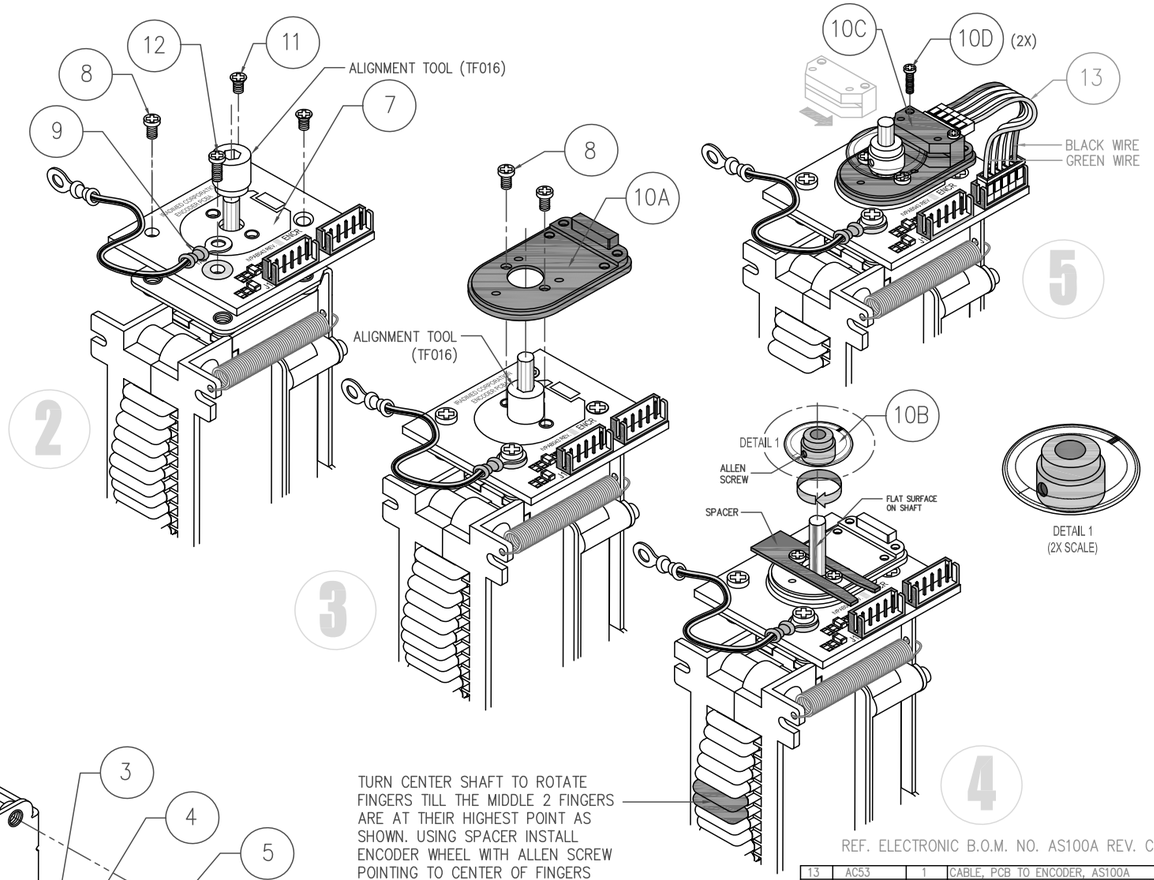
4. TURN CENTER SHAFT TO ROTATE FINGERS TILL THE MIDDLE 2 FINGERS ARE AT THEIR HIGHEST POINT AS SHOWN. USING PROVIDED SPACER, INSTALL ENCODER HUBDISC (ITEM 10B) WITH ALLEN SCREW POINTING TO CENTER OF FINGERS AS SHOWN (SINGLE BLACK LINE ON ENCODER DISC INDICATES ALLEN POSITION). TIGHTEN ALLEN SCREW WITH PROVIDED ALLEN WRENCH USING BLUE LOCTITE.

5. INSTALL ENCODER OPTICAL MODULE (ITEM 10C) BY SLIDING INTO PLACE ALLOWING FOR ENCODER DISC TO POSITION INTO GAP. USING 2 SUPPLIED 4–40 SCREWS (ITEM 10D), TIGHTEN READER HEAD INTO PLACE (USE BLUE LOCTITE ON THREADS). PLUG AC53 CABLE ASSEMBLY (ITEM 13) INTO ENCODER HEAD AND LOCATION J2 ON IVPAB043 BOARD AS SHOWN.

6. ASSEMBLE #6–32 X 1/8 LG. SET SCREW (ITEM 3) INTO COUPLER (ITEM 4). PLACE TUBING (ITEM 5 CUT TO .375" IN LENGTH) AND COUPLER OVER SHAFT OF MOTOR (ITEM 2). ATTACH MOTOR TO BOTTOM MOUNTING BRACKET OF AS117A BLOCK ASSEMBLY (ITEM 1) WITH FOUR #8 TO #6–32 X .430" SS316 SHOULDER SCREWS (ITEM 6) WHILE GUIDING COUPLER ONTO SHAFT OF CAM SHAFT SUBASSEMBLY. SLIDE COUPLER UNTIL IT TOUCHES THE TOP OF THE TUBING AND TIGHTEN THE SET SCREW.

7. ROUTE ASSEMBLY TO INSPECTION.





REF. ELECTRONIC B.O.M. NO. AS100A REV. C

ITEM	PART NO.		DESCRIPTION
13	AC53	1	CABLE, PCB TO ENCODER, AS100A
12	NS12	1	SCR, #4–40 X 1/4LG. PHMS, SS (316)
11	NS17	2	SCR, #4–40 X 1/4LG. FHMS, SS (316)
10D	HE15D	2	ENCODER, FASTENER, SCREW–440–500–PH
10C	HE15C	1	ENCODER, OPTICAL MODULE EM1–1–1000–1
10B	HE15B	1	ENCODER, HUBDISC–1–1000–197–IE–55009
10A	HE15A	1	ENCODER, E5 BASE, BASE–E5–197–5–D
9	AC29	1	CABLE, GND TAB, 3850/60 3851/61 3855/65
8	NS11	3	SCR, #4–40 X 3/16LG. PHMS, SS (316)
7	IVPAB043	1	PCBA, CUI ENCODER, 3850/3860 SERIES
6	NS41	4	SCR, SHOULDER, #8 TO #6–32 X .410" SS316
5	HM34	.375"	TUBING, SI, 1/8 X 1/4, U.S. PLASTICS 54031
4	IVP1076	1	COUPLER, 3/16 HEX SHAFT, W/SET SCREW
3	NS23	1	SCR,, SET, #6–32 X 1/8 LG, SOC.CP.PT–SS
2	IVP1004	1	MOTOR, FRICTION C45–14
1	AS132A	1	SUB–ASSEMBLY, CAM SHAFT, CUI PUMP BLOCK

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Rev.	Description	Date
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B	ECN 000457	15NOV12
A	ECN 000435	05SEP12

Revision History

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M.A.: FXC Date: 03DEC12
Mfg.: TWF Date: 03DEC12
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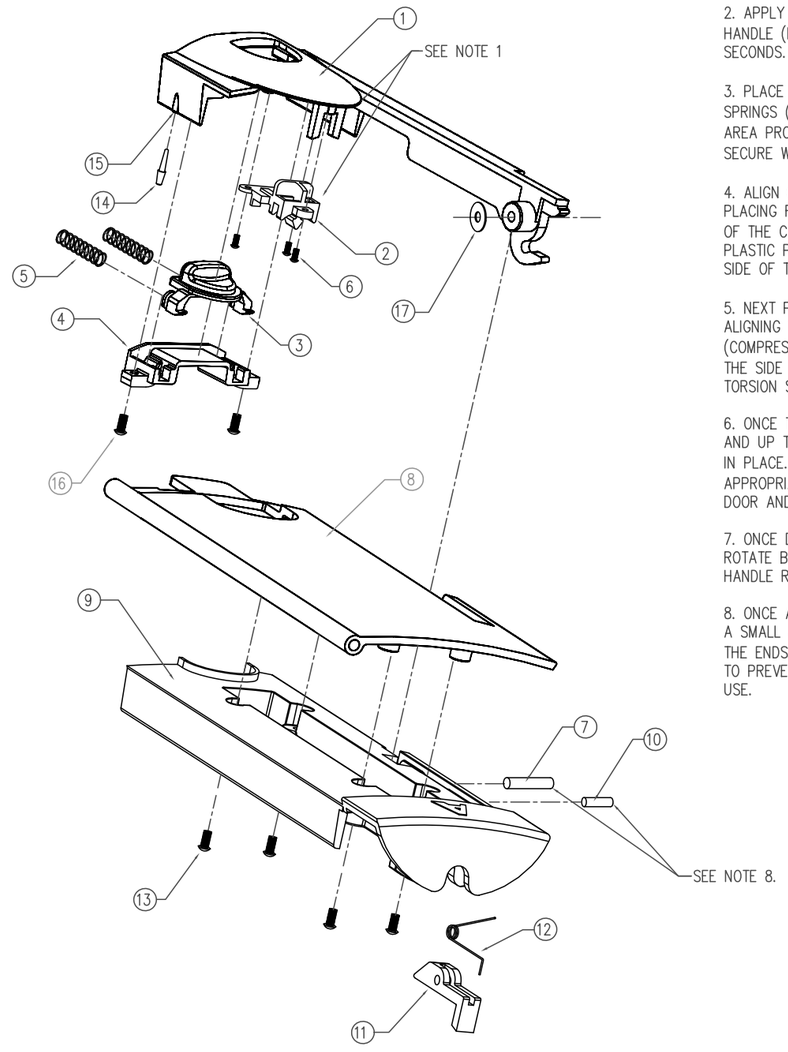
Third Angle Projection

Title: SUBASSEMBLY, CUI PUMP BLOCK
Size: D
Part/Dwg. No: AS100A
Rev: C
Cad. Scale: NONE
Sheet 1 of 1

Figure 5-16. AS100A Pump Block Assembly (Top Encoder)



ASSEMBLY NOTES:

1. USING 3 #2–56 X 3/16 PAN HD. SCREWS (ITEM 6), ATTACH CLAMP CLIP (ITEM 2) TO THE BACK OF CLAMP HANDLE (ITEM 1) AS SHOWN. INSPECT AND REMOVE ANY SHARP EDGES FROM HANDLE PARABOLA USING FINE GRIT SANDPAPER. DO NOT OVER–TIGHTEN SCREWS.

2. APPLY A COUPLE DROPS OF LOCTITE 380 (BLACK MAX (ITEM 15)) INTO HOLE ON UNDERSIDE OF CLAMP HANDLE (ITEM 1). QUICKLY PRESS RUBBER PIN (ITEM 14) INTO HOLE AS SHOWN AND AND HOLD FOR 2 SECONDS. IMMEDIATELY WIPE AWAY ANY EXCESS ADHESIVE AROUND BASE OF RUBBER PIN.

3. PLACE CLAMP LATCH SLIDER (ITEM 3) ONTO CLAMP LATCH COVER (ITEM 4) ALONG WITH 2 COMPRESSION SPRINGS (ITEM 5) (COMPRESS AND PLACE INTO COVER HOLDING SLIDER IN PLACE). PLACE THIS ASSEMBLY IN AREA PROVIDED IN BACKSIDE OF CLAMP (ASSURE BUTTON SIDE OF SLIDER IS PROTRUDING THRU CLAMP) AND SECURE WITH 2 SCREWS (ITEM 16).

4. ALIGN CLAMP HANDLE (ITEM 1) AND WAVE WASHER (ITEM 17) INTO DOOR PRESSURE PLATE (ITEM 9) BY PLACING ROUNDED BEARING END OF CLAMP HANDLE AND WASHER INTO THE U–SHAPED CUTOUT IN THE FACE OF THE CLEAR PRESSURE PLATE. PRESS FIT THE BRASS CLAMP PIN (ITEM 7) THRU FROM THE OUTSIDE OF THE PLASTIC PRESSURE PLATE, THRU THE HOLE OF THE CLAMP HANDLE, THRU WASHER AND THEN THRU THE OTHER SIDE OF THE PLASTIC UNTIL PIN STOPS AGAINST INSIDE WALL OF PRESSURE PLATE.

5. NEXT PLACE THE LATCH PAW TORSION SPRING (ITEM 12) INTO THE DOOR LATCH PAW (ITEM 11) AS SHOWN ALIGNING THE HOLES OF THE LATCH PAW WITH THAT OF THE SPRING. SLIDE LATCH PAW AND SPRING (COMPRESSING SPRING WITH FINGER) FROM BACKSIDE OF PRESSURE PLATE (ITEM 9) UNTIL HOLES LINE UP WITH THE SIDE WALL. PRESS FIT BRASS PIN (ITEM 10) THRU OUTSIDE WALL GUIDING IT THRU THE LATCH PAW AND TORSION SPRING UNTIL SEATING IT FLUSH AGAINST THE PRESSURE PLATE INSIDE WALL.

6. ONCE THE CLAMP HANDLE AND PAW ARE INSTALLED IN THE PRESSURE PLATE, ROTATE CLAMP OUTWARDS AND UP TO APPROXIMATELY A 45° ANGLE. THE CLAMP HANDLE SHOULD LATCH AGAINST THE PAW AND BE HELD IN PLACE. ALIGN DOOR FRONT (ITEM 8) OVER PRESSURE PLATE AS SHOWN ALIGNING THE 4 BOSSES WITH THIER APPROPRIATE CHANNELS IN THE PRESSURE PLATE. USING 4 #4–40 X 1/4LG. SCREWS (ITEM 13) ATTACH THE DOOR AND PLATE TOGETHER.

7. ONCE DOOR IS IN PLACE, PRESS FOOT OF LATCH PAW FROM BOTTOM SIDE ALLOWING THE CLAMP HANDLE TO ROTATE BACK TO ITS CLOSED AND LOCKED POSITION. INSURE THAT ALL ASSEMBLIES HAVE CLEARANCE AS THE HANDLE ROTATES INTO PLACE.

8. ONCE ASSEMBLY IS FINISHED, APPLY A SMALL AMOUNT OF 2 PART EPOXY TO THE ENDS OF BRASS PINS (ITEM 7 AND 10) TO PREVENT FROM PUSHING OUT DURING USE.

ITEM	PART NO.	QTY.	DESCRIPTION
17	NW06	1	WSHR, WAVE, 18–8SS, .208 ID X .385 OD
16	NS13	2	SCR, #4–40 X 5/16LG. PHMS, SS (316)
15	M044	0.01	LOCKTITE 380, INSTANT ADHESIVE, BLACK
14	IVP1099	1	DOOR CLAMP PIN, 3850/3851
13	NS12	4	SCREW, #4–40 X 1/4LG. PHMS, XR–SS316
12	HM16	1	SPRING, TORSION, DOOR LATCH PAW
11	IVP1038	1	PAW, DOOR LATCH
10	HM15	1	PIN, DOOR LATCH PAW
9	IVP1029T	1	PRESSURE PLATE, DOOR, 3850 TAPER
8	IVP1030A	1	DOOR, FRONT, LATCHING, 3860, WHT
7	HM14	1	PIN, CLAMP HANDLE
6	NS01	3	SCREW, #2–56 X 3/16LG. PHMS, XR–SS316
5	HM17	2	SPRING, SPRING ARM COMPRESSION
4	IVP1095	1	CLAMP LATCH, COVER, 3850–3851
3	IVP1094	1	CLAMP LATCH, SLIDER, 3850–3851
2	IVP1068	1	CLAMP CLIP, DOOR
1	IVP1031A	1	CLAMP HANDLE, DOOR, 3850, LATCHED

Rev.	Description	Date
C	ECN 000371	26JAN11
B	ECN 000346	10MAY10
A	ECN 000227	13NOV07

Revision History

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn: JRN Date: 13NOV07
Eng.: RES Date: 26JAN11
Q.A.: FXC Date: 26JAN11
R.A.: FXC Date: 26JAN11
Mfg.: TWF Date: 26JAN11

Do NOT scale this drawing !

Third Angle Projection

Iradimed Corporation

Title: SUB–ASSEM, FRONT DOOR, 3860, LATCHING

Size: C

Part/Dwg. No: AS112A

Rev: C

Cad. Scale: NA

Sheet 1 of 1

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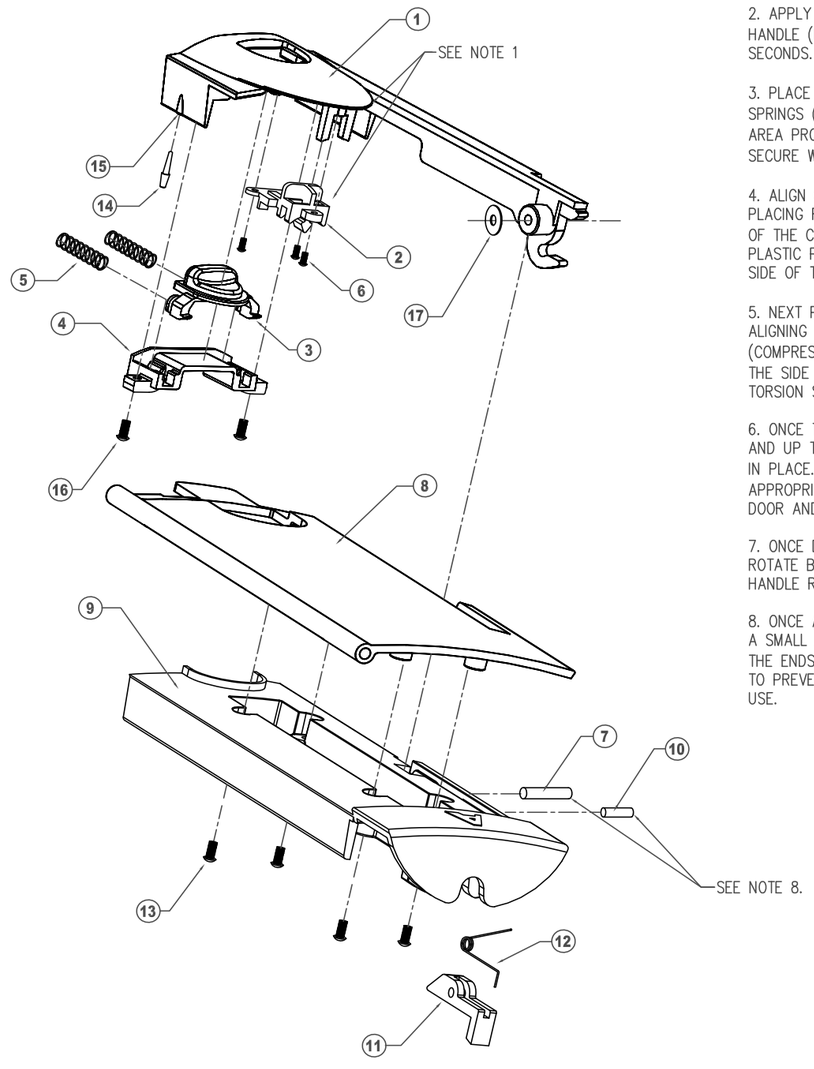
LF20 Rev. A

Figure 5-17. AS112A Sub-Assembly, 3860/60+ Door, Latching



ASSEMBLY NOTES:

1. USING 3 #2–56 X 3/16 PAN HD. SCREWS (ITEM 6), ATTACH CLAMP CLIP (ITEM 2) TO THE BACK OF CLAMP HANDLE (ITEM 1) AS SHOWN. INSPECT AND REMOVE ANY SHARP EDGES FROM HANDLE PARABOLA USING FINE GRIT SANDPAPER. DO NOT OVER–TIGHTEN SCREWS.

2. APPLY A COUPLE DROPS OF LOCTITE 380 (BLACK MAX (ITEM 15)) INTO HOLE ON UNDERSIDE OF CLAMP HANDLE (ITEM 1). QUICKLY PRESS RUBBER PIN (ITEM 14) INTO HOLE AS SHOWN AND AND HOLD FOR 2 SECONDS. IMMEDIATELY WIPE AWAY ANY EXCESS ADHESIVE AROUND BASE OF RUBBER PIN.

3. PLACE CLAMP LATCH SLIDER (ITEM 3) ONTO CLAMP LATCH COVER (ITEM 4) ALONG WITH 2 COMPRESSION SPRINGS (ITEM 5) (COMPRESS AND PLACE INTO COVER HOLDING SLIDER IN PLACE). PLACE THIS ASSEMBLY IN AREA PROVIDED IN BACKSIDE OF CLAMP (ASSURE BUTTON SIDE OF SLIDER IS PROTRUDING THRU CLAMP) AND SECURE WITH 2 SCREWS (ITEM 16).

4. ALIGN CLAMP HANDLE (ITEM 1) AND WAVE WASHER (ITEM 17) INTO DOOR PRESSURE PLATE (ITEM 9) BY PLACING ROUNDED BEARING END OF CLAMP HANDLE AND WASHER INTO THE U–SHAPED CUTOUT IN THE FACE OF THE CLEAR PRESSURE PLATE. PRESS FIT THE BRASS CLAMP PIN (ITEM 7) THRU FROM THE OUTSIDE OF THE PLASTIC PRESSURE PLATE, THRU THE HOLE OF THE CLAMP HANDLE, THRU WASHER AND THEN THRU THE OTHER SIDE OF THE PLASTIC UNTIL PIN STOPS AGAINST INSIDE WALL OF PRESSURE PLATE.

5. NEXT PLACE THE LATCH PAW TORSION SPRING (ITEM 12) INTO THE DOOR LATCH PAW (ITEM 11) AS SHOWN ALIGNING THE HOLES OF THE LATCH PAW WITH THAT OF THE SPRING. SLIDE LATCH PAW AND SPRING (COMPRESSING SPRING WITH FINGER) FROM BACKSIDE OF PRESSURE PLATE (ITEM 9) UNTIL HOLES LINE UP WITH THE SIDE WALL. PRESS FIT BRASS PIN (ITEM 10) THRU OUTSIDE WALL GUIDING IT THRU THE LATCH PAW AND TORSION SPRING UNTIL SEATING IT FLUSH AGAINST THE PRESSURE PLATE INSIDE WALL.

6. ONCE THE CLAMP HANDLE AND PAW ARE INSTALLED IN THE PRESSURE PLATE, ROTATE CLAMP OUTWARDS AND UP TO APPROXIMATELY A 45° ANGLE. THE CLAMP HANDLE SHOULD LATCH AGAINST THE PAW AND BE HELD IN PLACE. ALIGN DOOR FRONT (ITEM 8) OVER PRESSURE PLATE AS SHOWN ALIGNING THE 4 BOSSES WITH THIER APPROPRIATE CHANNELS IN THE PRESSURE PLATE. USING 4 #4–40 X 1/4LG. SCREWS (ITEM 13) ATTACH THE DOOR AND PLATE TOGETHER.

7. ONCE DOOR IS IN PLACE, PRESS FOOT OF LATCH PAW FROM BOTTOM SIDE ALLOWING THE CLAMP HANDLE TO ROTATE BACK TO ITS CLOSED AND LOCKED POSITION. INSURE THAT ALL ASSEMBLIES HAVE CLEARANCE AS THE HANDLE ROTATES INTO PLACE.

8. ONCE ASSEMBLY IS FINISHED, APPLY A SMALL AMOUNT OF 2 PART EPOXY TO THE ENDS OF BRASS PINS (ITEM 7 AND 10) TO PREVENT FROM PUSHING OUT DURING USE.

ITEM	PART NO.	QTY.	DESCRIPTION
17	NW06	1	WSHR, WAVE, 18–8SS, .208 ID X .385 OD
16	NS13	2	SCR, #4–40 X 5/16LG. PHMS, SS (316)
15	M044	0.01	LOCKTITE 380, INSTANT ADHESIVE, BLACK
14	IVP1099OP	1	DOOR PIN, OPTIC 3850/3851
13	NS12	4	SCREW, #4–40 X 1/4LG. PHMS, XR–SS316
12	HM16	1	SPRING, TORSION, DOOR LATCH PAW
11	IVP1038	1	PAW, DOOR LATCH
10	HM15	1	PIN, DOOR LATCH PAW
9	IVP1029T	1	PRESSURE PLATE, DOOR, 3850 TAPER
8	IVP1030A	1	DOOR, FRONT, LATCHING, 3860, WHT
7	HM14	1	PIN, CLAMP HANDLE
6	NS01	3	SCREW, #2–56 X 3/16LG. PHMS, XR–SS316
5	HM17	2	SPRING, SPRING ARM COMPRESSION
4	IVP1095	1	CLAMP LATCH, COVER, 3850–3851
3	IVP1094	1	CLAMP LATCH, SLIDER, 3850–3851
2	IVP1068	1	CLAMP CLIP, DOOR
1	IVP1031A	1	CLAMP HANDLE, DOOR, 3850, LATCHED

Rev.	Description	Date
B	ECN 000488	18JUN13
A	ECN 000373	14FEB11

Revision History

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn: JRN Date: 14FEB11
Eng.: RES Date: 18JUN13
Q.A.: FXC Date: 18JUN13
R.A.: FXC Date: 18JUN13
Mfg.: TWF Date: 18JUN13

Do NOT scale this drawing !

Third Angle Projection

Iradimed Corporation

Title: SUB–ASSEM, FRNT DR, 3850/60, LTCH, OPTIC

Size: C

Part/Dwg. No: AS112AOP

Rev: B

Cad. Scale: NA

Sheet 1 of 1

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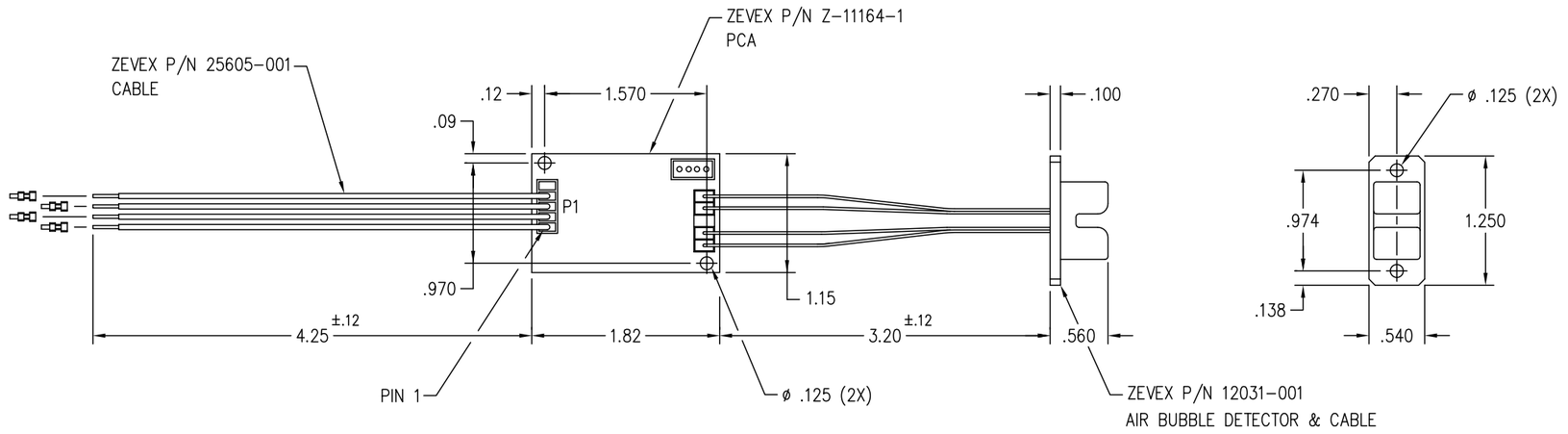
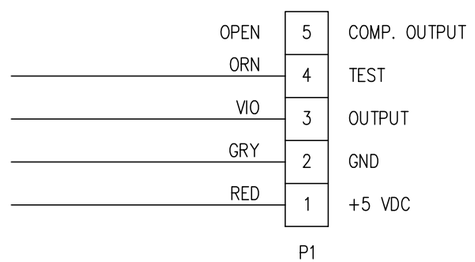
LF20 Rev. A

Figure 5-18. AS112AOP Sub-Assembly, 3860/60+ Door, Latching, Optic*





P1 WIRING DIAGRAM

APPROVED MANUFACTURERS: ZEVEX, INC.

PART NUMBER: 25604-001

NOTES

1. PART TO BE SUPPLIED IN A 6.00 X 7.00 SEALED ANTI-STATIC BAG. BAG TO BE HAVE A LABEL WITH THE FOLLOWING INFORMATION; "Iradimed", IRI PART NUMBER, CURRENT REVISION, DESCRIPTION, SUPPLIER NAME, PART NUMBER, & SUPPLIER REV. LEVEL, COUNTRY OF MANUFACTURE, AND SERIAL NUMBER.
2. SUPPLIER TO PROVIDE A CERTIFICATE OF COMPLIANCE WITH EACH SHIPMENT.

			CAD Scale: NONE	Tols.: .XX ±.02 .XXX ±.010 Angles ± 2°	**Iradimed Corporation**
			Drawn: GRB	Date: 30MAY05	
			Eng.:	Date:	Title: SENSOR, AIR BUBBLE DETECTOR
			Q.A.:	Date:	Size: B
			R.A.:	Date:	
			Mfg.:	Date:	
0	PROTOTYPE	30MAY05	Do NOT scale this drawing		Part/Dwg. No: HE09
Rev.	Description	Date	Third Angle Projection	INCH	Rev: 0
Revision History					

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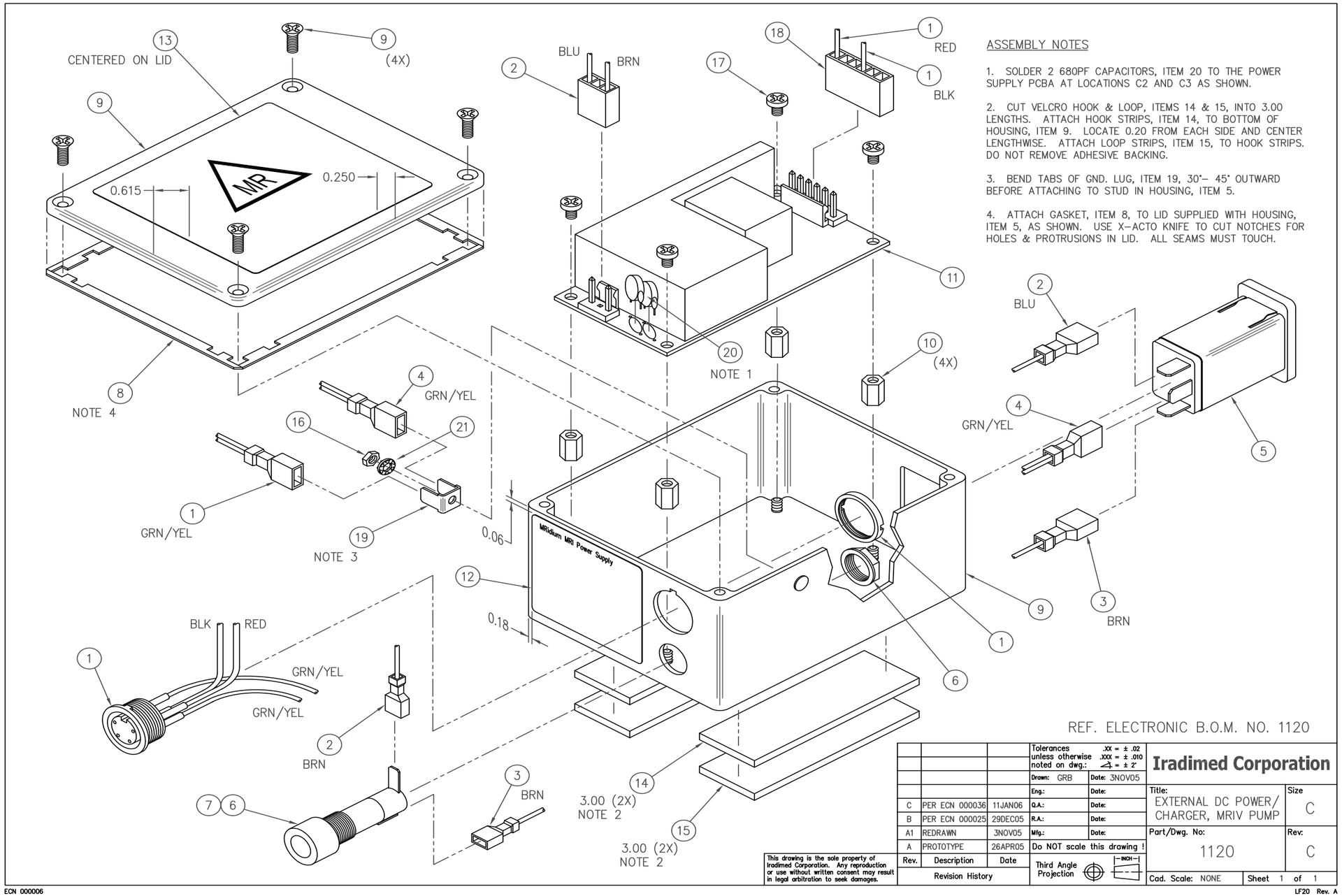
Figure 5-19. HE09 Sensor, Air Bubble Detector



ASSEMBLY NOTES

1. SOLDER 2 680PF CAPACITORS, ITEM 20 TO THE POWER SUPPLY PCBA AT LOCATIONS C2 AND C3 AS SHOWN.

2. CUT VELCRO HOOK & LOOP, ITEMS 14 & 15, INTO 3.00 LENGTHS. ATTACH HOOK STRIPS, ITEM 14, TO BOTTOM OF HOUSING, ITEM 9. LOCATE 0.20 FROM EACH SIDE AND CENTER LENGTHWISE. ATTACH LOOP STRIPS, ITEM 15, TO HOOK STRIPS. DO NOT REMOVE ADHESIVE BACKING.

3. BEND TABS OF GND. LUG, ITEM 19, 30°– 45° OUTWARD BEFORE ATTACHING TO STUD IN HOUSING, ITEM 5.

4. ATTACH GASKET, ITEM 8, TO LID SUPPLIED WITH HOUSING, ITEM 5, AS SHOWN. USE X–ACTO KNIFE TO CUT NOTCHES FOR HOLES & PROTRUSIONS IN LID. ALL SEAMS MUST TOUCH.

REF. ELECTRONIC B.O.M. NO. 1120

Rev.	Description	Date
C	PER ECN 000036	11JAN06
B	PER ECN 000025	29DEC05
A1	REDRAWN	3NOV05
A	PROTOTYPE	26APR05

Revision History

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn: GRB Date: 3NOV05

Eng.: Date:

Q.A.: Date:

R.A.: Date:

Mfg.: Date:

Do NOT scale this drawing !

Third Angle Projection — INCH

Iradimed Corporation

Title: EXTERNAL DC POWER/ CHARGER, MRIV PUMP

Size: C

Part/Dwg. No: 1120

Rev: C

Cad. Scale: NONE

Sheet 1 of 1

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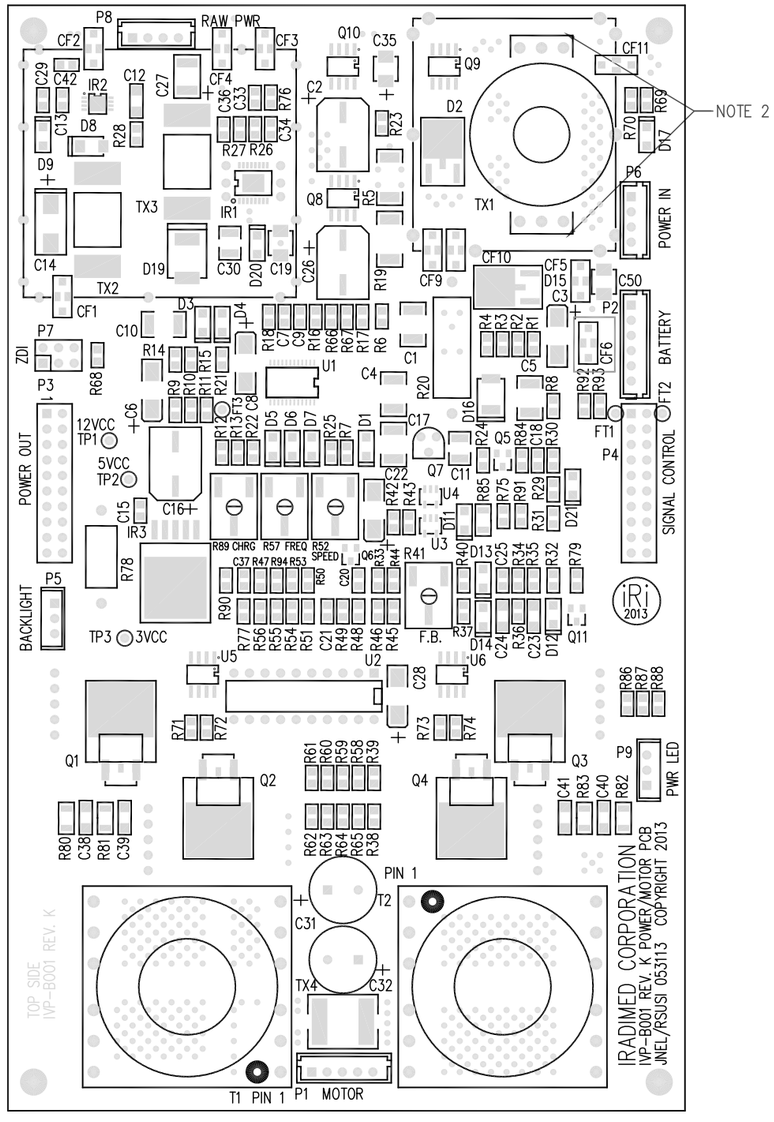
ECN 000006

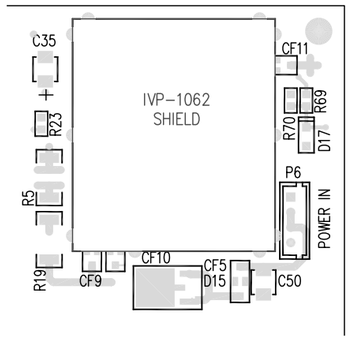
LF20 Rev. A

Figure 5-20. 1120 MRIV Pump External DC Power/Charger

Figure 5-21. 1120 Bill of Materials (Parts List)

Dwg Item	Component ID	Required	Description
0001	AC13	1	CABLE, DC OUTPUT, 1120
0002	AC14	1	CABLE, AC TO POWER SUPPLY, 1120
0003	AC15	1	CABLE, AC FILTER TO FUSE, 1120
0004	AC21	1	CABLE, AC FILTER TO GND., 1120
0005	HE05	1	CONN., AC PWR. FILTER, SCHURTER 693-5110
0006	HE06	1	HOLDER, FUSE, LITTELFUSE H3453HS1
0007	HE14	1	FUSE, 1A, BK/AGC-1SloBlo/ 0313001.HXP
0008	HG07	1.2	GASKET, 0.02 X 0.157, FAB/FOAM, PSA
0009	HM05	1	HOUSING, 1120 POWER SUPPLY
0010	HM07	4	STNDF., HEX, #6-32, KEYSTONE 534-1451B
0011	IVP2102	1	XPiQ 40 WATT, 18VDC MEDICAL SUPPLY ECM40
0012	LB2006	1	LABEL, MODEL NO., 1120
0013	LB2007	1	LABEL, MR WARNING, 1120
0014	M006	6”	HOOK, VELCRO, 1.0, PRS.SENS, SJ355210-ND
0015	M007	6”	LOOP, VELCRO, 1.0, PRS.SENS, SJ355110-ND
0016	N005	1	NUT, HEX, #6-32 NAR. SERIES-SS316
0017	NS20	4	SCREW, #6-32 X 3/16LG. PHMS, XR-SS316
0018	PA19	1	CONN, 6P HSG, 0.156, MOLEX 538-09-50-3061
0019	PA42	1	GND, LUG, DUAL #6 X 0.25, KYSTN. 534-1257
0020	C601	2	CAP 680PF 250V Y2/X1 ECKATS681MB
0021	NW01	1	WASHER, INT LOCK, #6 SS, 6INLWSS





NOTES:

1. INSTALL CONNECTORS AT LOCATIONS P3 AND P4 ON BOARD FROM THE BACKSIDE.

2. AFTER FLOW SOLDER, FOLD IVP-1062 METAL SHIELD ON SCORE LINES AND INSTALL OVER TX1, D2, Q9 LOCATION ENSURING CF9, CF10 AND CF11 FILTERS ARE IN CUTOUTS OF SHIELD AS SHOWN ABOVE. BE SURE LEADS ON TX1 ARE TRIMMED DOWN TO AVOID SHORTING TO INSIDE OF METAL SHIELD.

3. ASSEMBLY WILL USE BLANK PCB IVPB001 REV. K. USE IRADIMED BOM IVPAB001-Y FOR LIST OF ITEM NUMBERS AND COMPONENTS.

4. ASSEMBLY MUST MEET IPC-610A CLASS 3 STANDARD FOR SOLDERABILITY AND ELECTRONIC ASSEMBLIES.

Y	ECN 000491	28JUN13	Tolerances unless otherwise noted on dwg.:	.XX = ± .02 .XXX = ± .010 ∠ = ± 2°	Iradimed Corporation
X	ECN 000485	31MAY13	Drawn: JRN	Date: 19JAN05	
W	ECN 000419	12JUN12	Eng.: RES	Date: 28JUN13	Title: ASSEMBLY: POWER/MOTOR PCB 3850/60 MRidium — Size: C
V	ECN 000284	12JAN10	Q.A.: FXC	Date: 28JUN13	
U	ECN 000250	06MAY08	R.A.: FXC	Date: 28JUN13	
T	ECN 000203	04MAY07	Mfg.: TWF	Date: 28JUN13	Part/Dwg. No: IVPAB001 — Rev: Y
S	ECN 000195	09APR07	Do NOT scale this drawing !		

Rev.	Description	Date
Revision History		

Third Angle Projection — INCH

Cad. Scale: 2:1 — Sheet 1 of 1

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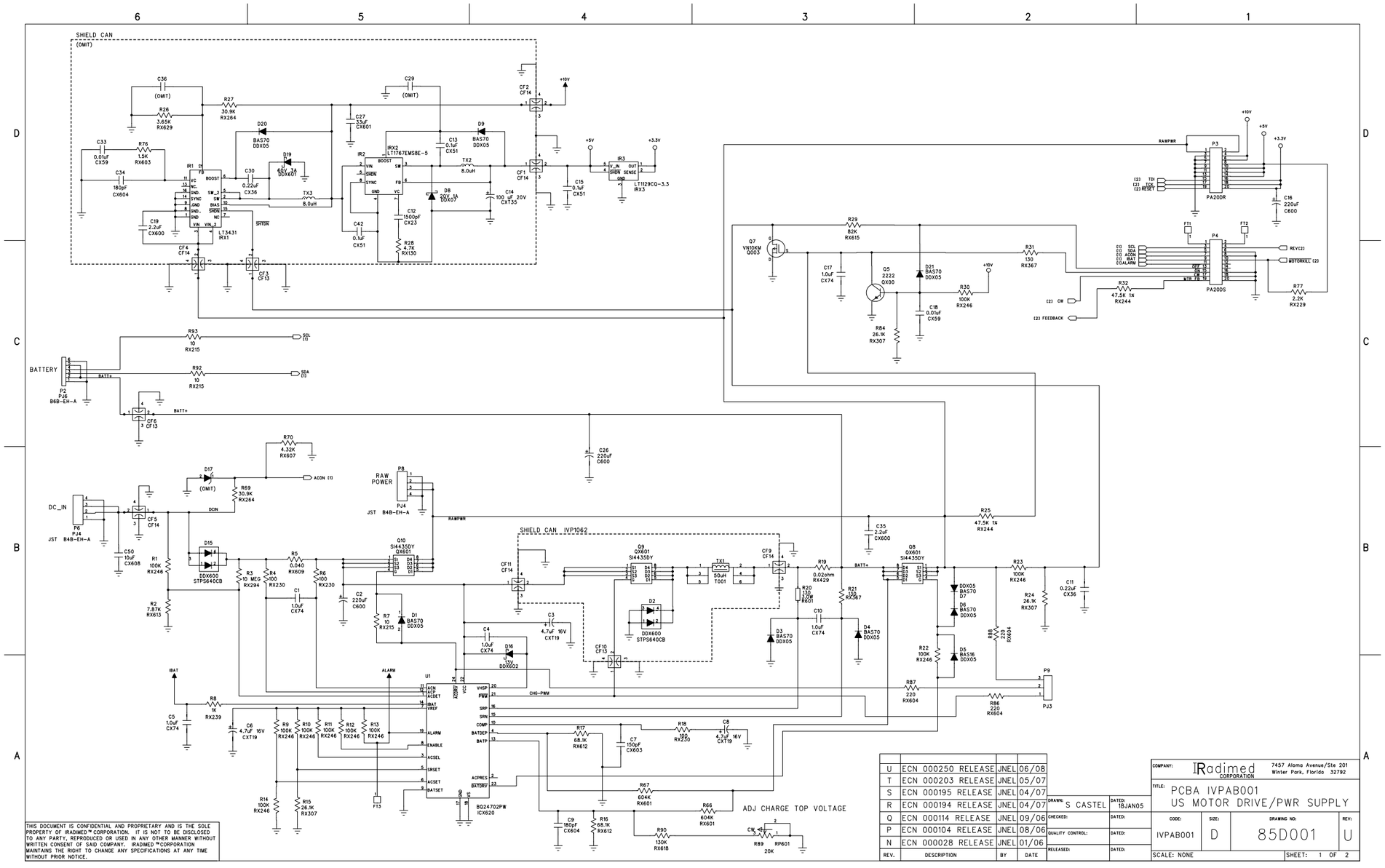
LF20 Rev. A

Figure 5-22. IVPAB001 PWR/Motor PCB Assembly


SHIELD CAN
(OMIT)
SHIELD CAN IVP1062
BATTERY
DC_IN
RAW POWER
ADJ CHARGE TOP VOLTAGE
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U ECN 000250 RELEASE JNEL 06/08
T ECN 000203 RELEASE JNEL 05/07
S ECN 000195 RELEASE JNEL 04/07
R ECN 000194 RELEASE JNEL 04/07
Q ECN 000114 RELEASE JNEL 09/06
P ECN 000104 RELEASE JNEL 08/06
N ECN 000028 RELEASE JNEL 01/06
REV. DESCRIPTION BY DATE
DRAWN: S CASTEL DATED: 18JAN05
CHECKED: DATED:
QUALITY CONTROL: DATED:
RELEASED: DATED:
COMPANY: IRadimed CORPORATION 7457 Aloma Avenue/Ste 201 Winter Park, Florida 32792
TITLE: PCBA IVPAB001 US MOTOR DRIVE/PWR SUPPLY
CODE: IVPAB001 SIZE: D DRAWING NO: 85D001 REV: U
SCALE: NONE SHEET: 1 OF 2

Figure 5-23. IVPAB001 (85D001) PWR/Motor PCB Assembly Schematic Sheet 1 of 2

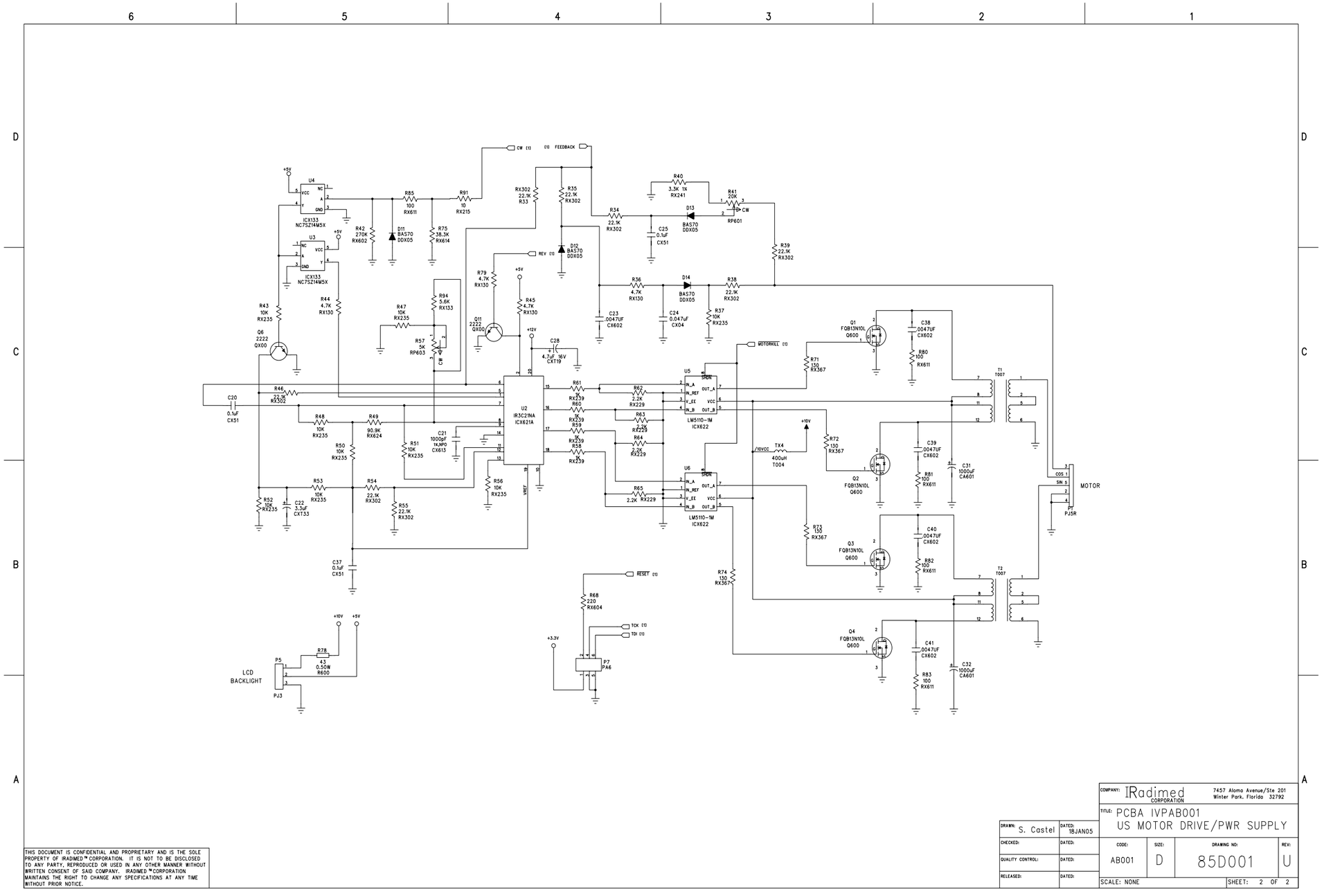
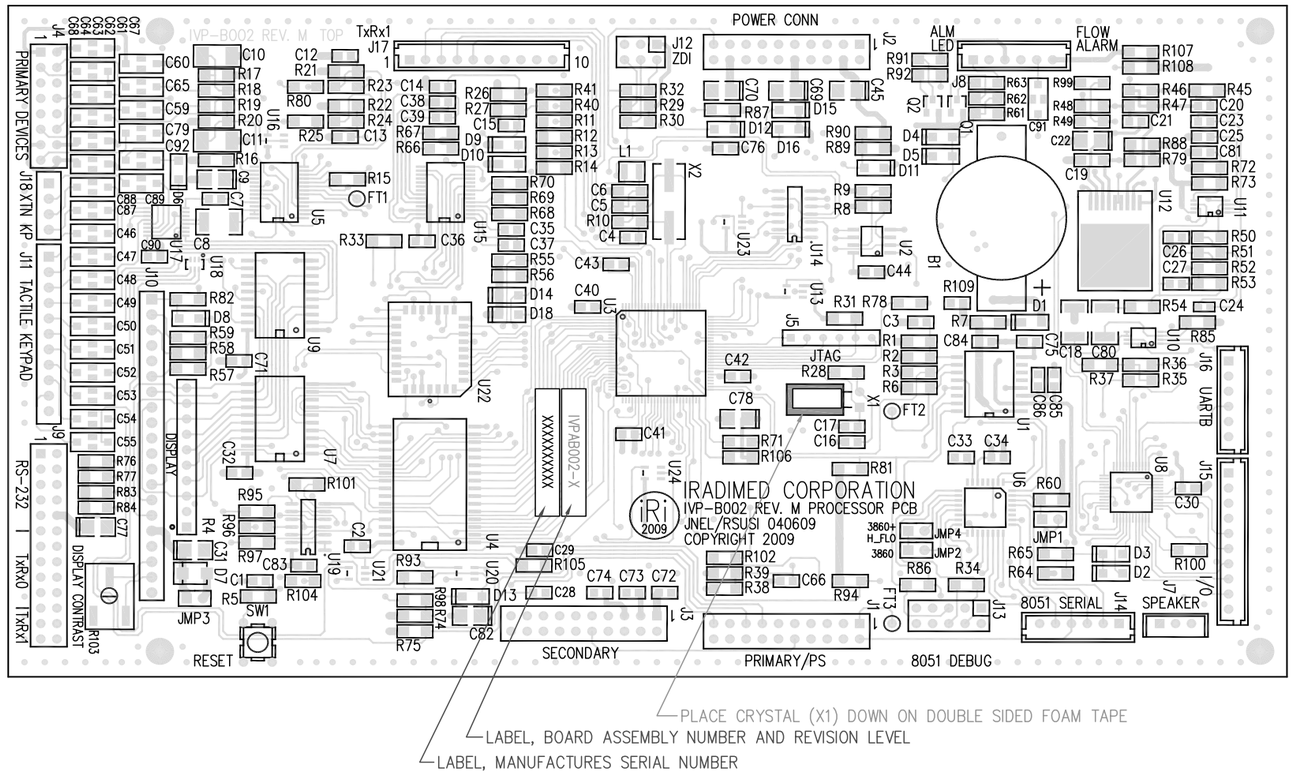


Figure 5-24. IVPAB001 (85D001) PWR/Motor PCB Assembly Schematic Sheet 2 of 2



NOTES:

1. INSTALL CONNECTOR AT LOCATION J10 FROM THE BACKSIDE OF BOARD.

2. ASSEMBLY WILL USE BLANK PCB IVPB002 REV. M. USE IRADIMED BOM IVPAB002-X FOR LIST OF ITEM NUMBERS AND COMPONENTS.

3. PCBA TO BE SUPPLIED WITH SOFTWARE INSTALLED. SEE SI001 FOR PROGRAMMING INSTRUCTIONS.

4. ASSEMBLY MUST MEET IPC-610A CLASS 3 STANDARD FOR SOLDERABILITY AND ELECTRONIC ASSEMBLIES.

Rev.	Description	Date
X	ECN 000489	24JUN13
W	ECN 000284	12JAN10
V	ECN 000277	10FEB09
U	ECN 000257	22JUL08
T	ECN 000218	18SEP07
S	ECN 000145	25OCT06
R	ECN 000118	11AUG06
P	ECN 000104	22JUN06

Revision History

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn: JRN Date: 12OCT05
Eng.: RES Date: 24JUN13
Q.A.: FXC Date: 24JUN13
R.A.: FXC Date: 24JUN13
Mfg.: TWF Date: 24JUN13

Do NOT scale this drawing !

Third Angle Projection — INCH

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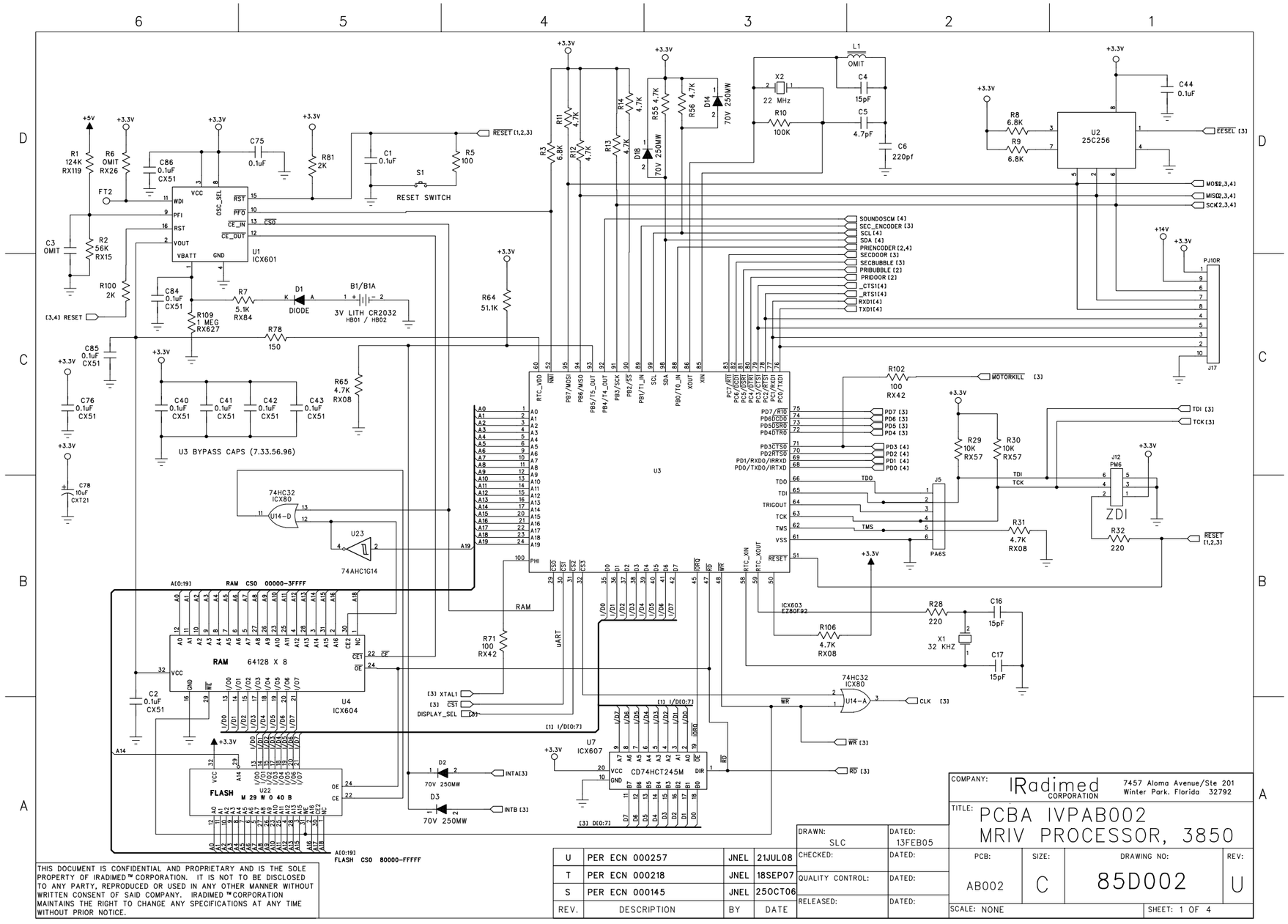
Iradimed Corporation

Title: ASSEMBLY: PROCESSOR PCB 3850/60 MRidium
Size: C
Part/Dwg. No: IVPAB002
Rev: X
Cad. Scale: 2:1
Sheet 1 of 1

LF20 Rev. A

Figure 5-25. IVPAB002 Processor PCB Assembly


RESET SWITCH
U1 ICX601
DIODE
3V LITH CR2032
U3 BYPASS CAPS (7.33.56.96)
74HC32 ICX80
74AHC1G14
RAM 64128 X 8
U4 ICX604
FLASH M 29 W 0 40 B
U22
U7 ICX607
CD74HCT245M
U3
22 MHz
U2 25C256
ICX603 EZ80F92
32 KHZ
ZDI
PJ10R
J17
PA6S
J5
J12 PM6
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U PER ECN 000257 JNEL 21JUL08
T PER ECN 000218 JNEL 18SEP07
S PER ECN 000145 JNEL 250CT06
REV. DESCRIPTION BY DATE
DRAWN: SLC DATED: 13FEB05
CHECKED: DATED:
QUALITY CONTROL: DATED:
RELEASED: DATED:
COMPANY: IRadimed CORPORATION 7457 Aloma Avenue/Ste 201 Winter Park. Florida 32792
TITLE: PCBA IVPAB002 MRIV PROCESSOR, 3850
PCB: AB002
SIZE: C
DRAWING NO: 85D002
REV: U
SCALE: NONE
SHEET: 1 OF 4

Figure 5-26. IVPAB002 (85D002) Processor PCB Assembly Schematic Sheet 1 of 4

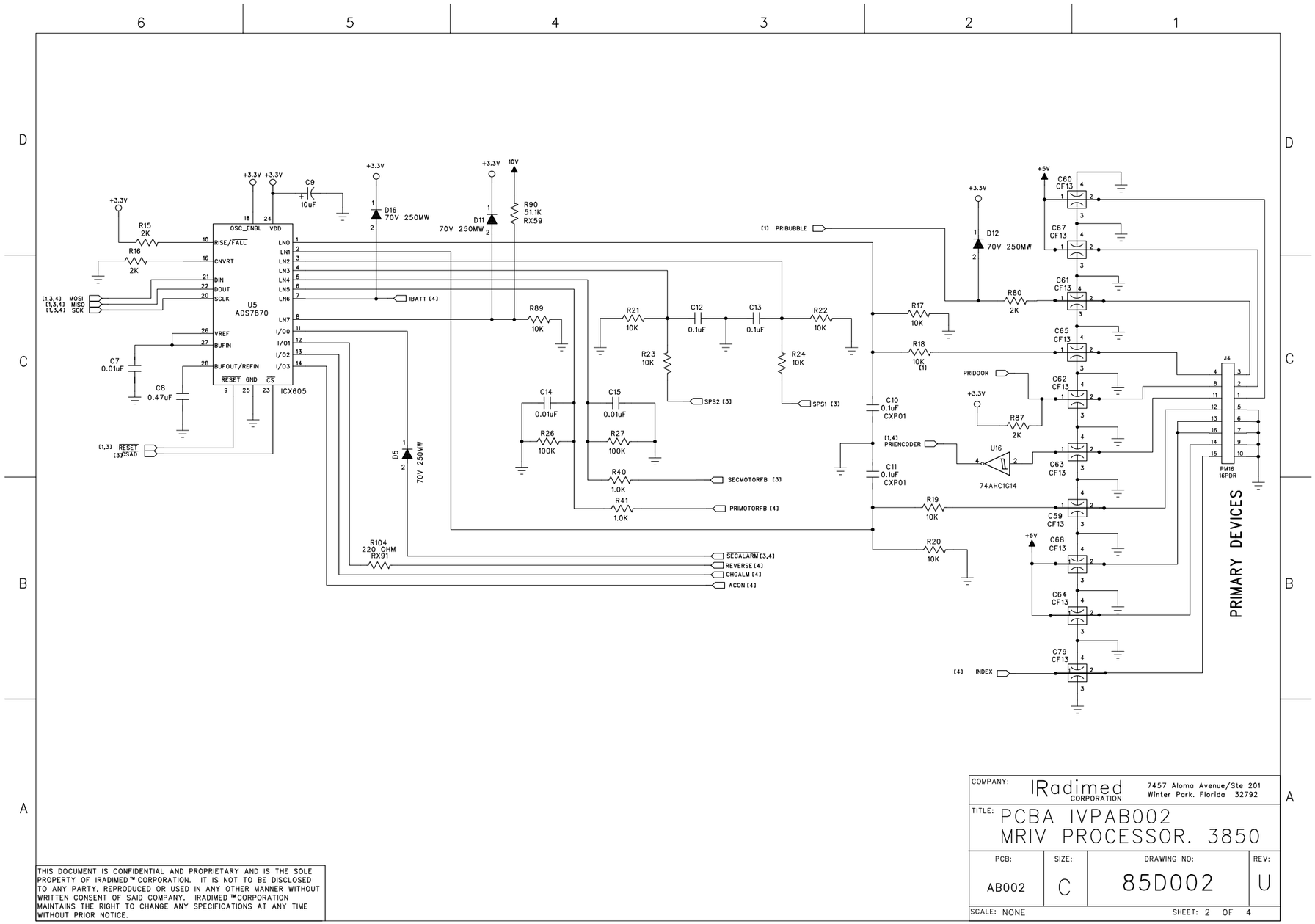


Figure 5-27. IVPAB002 (85D002) Processor PCB Assembly Schematic Sheet 2 of 4

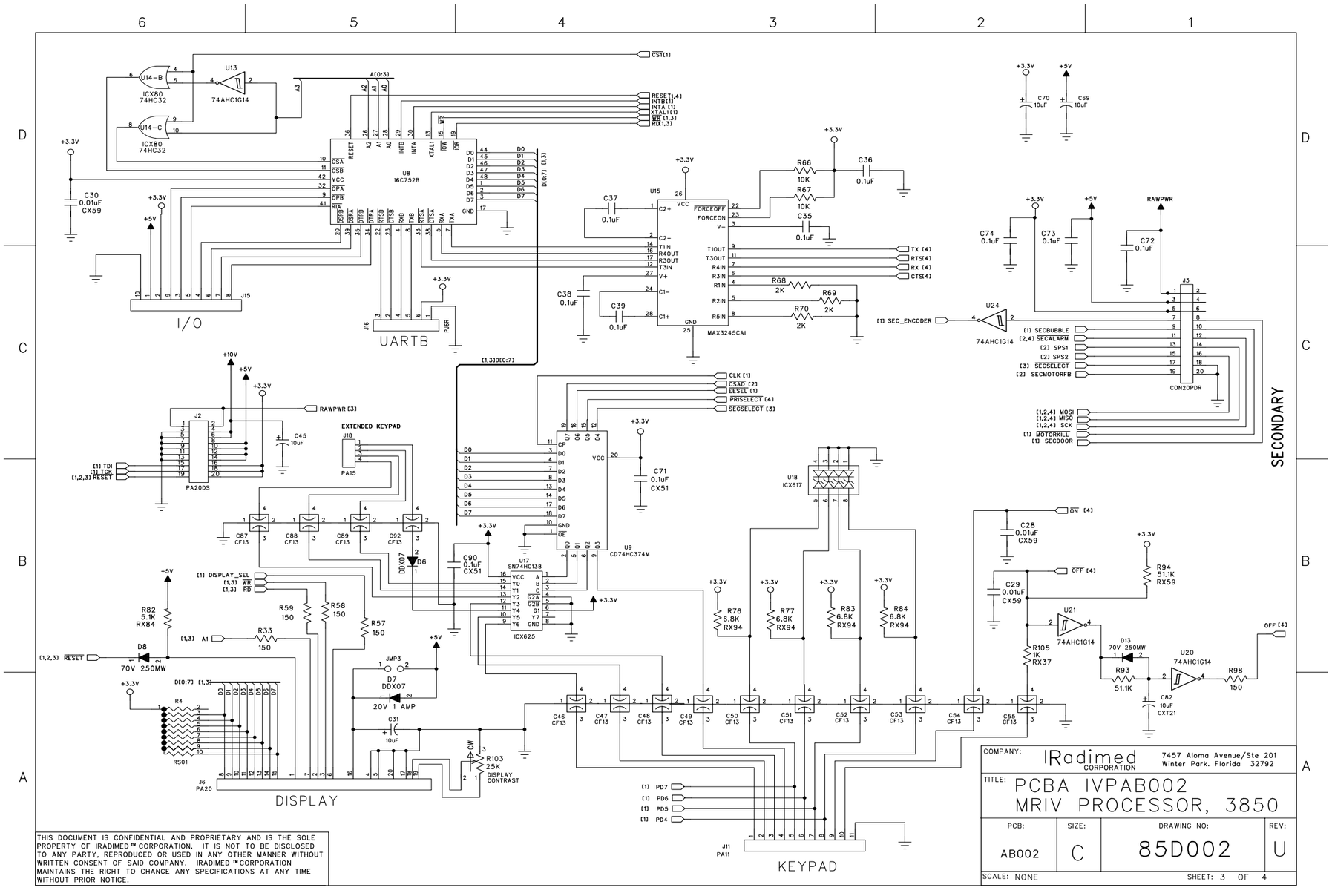
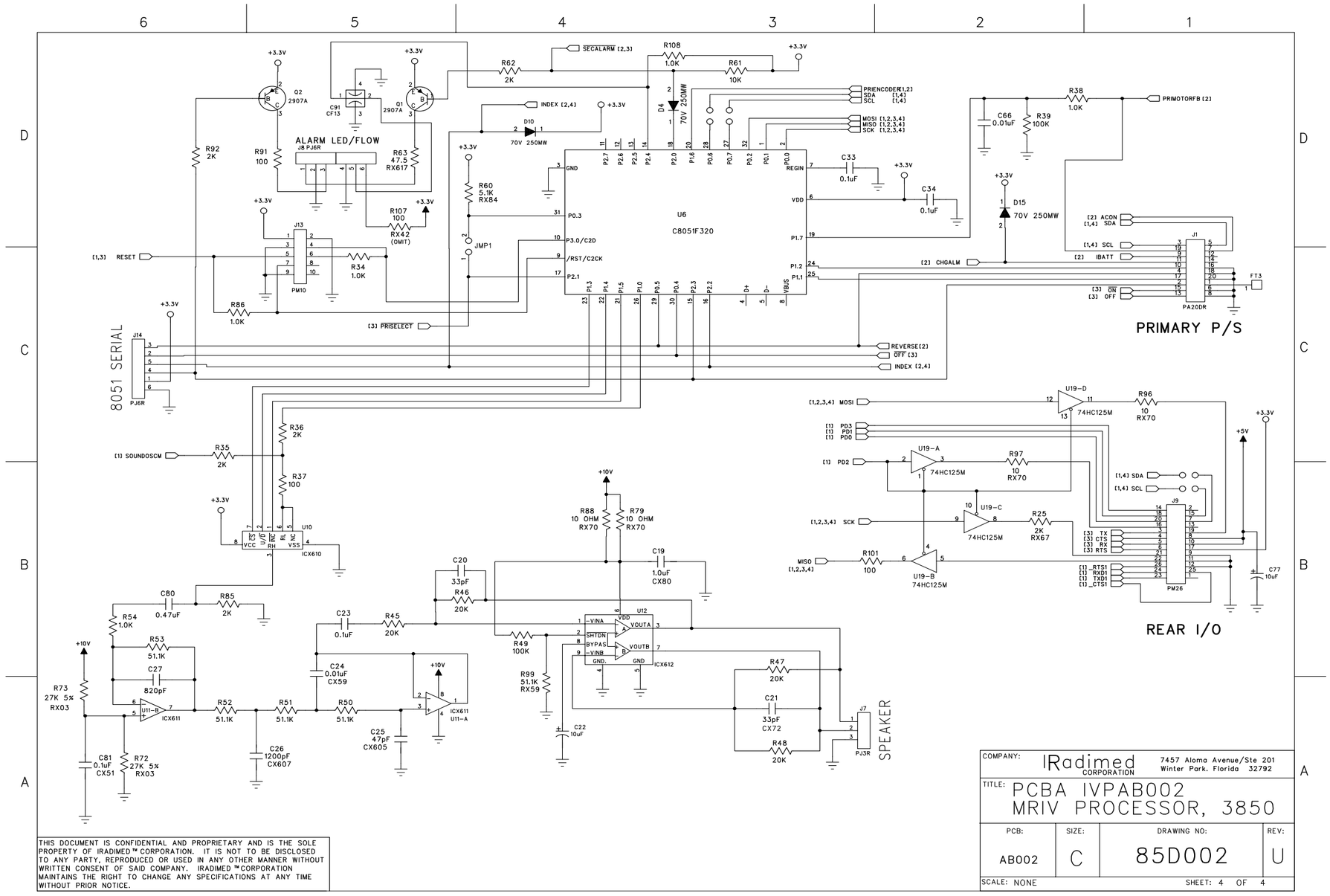


Figure 5-28. IVPAB002 (85D002) Processor PCB Assembly Schematic Sheet 3 of 4


ALARM LED/FLOW
J8 PJ6R
PRIMARY P/S
REAR I/O
8051 SERIAL
SPEAKER
U6
C8051F320
ICX610
ICX611
ICX612
74HC125M
PM10
PA20DR
PM26
PJ6R
PJ3R
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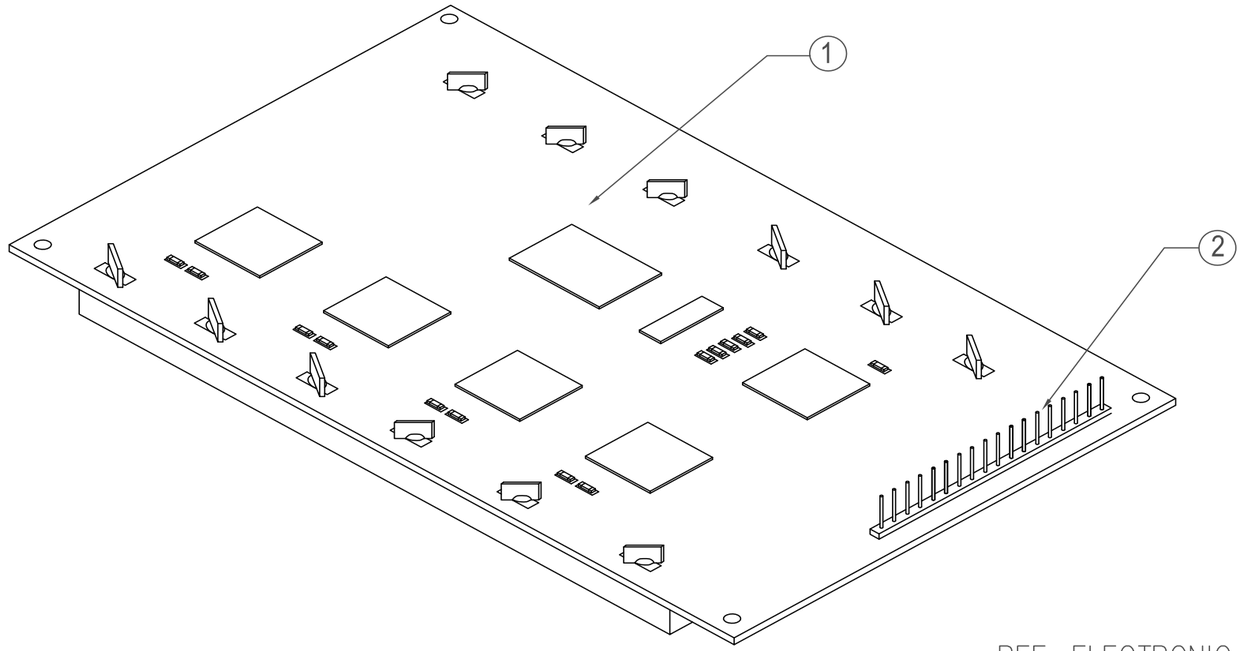
COMPANY: IRadimed CORPORATION 7457 Aloma Avenue/Ste 201 Winter Park, Florida 32792
TITLE: PCBA IVPAB002 MRIV PROCESSOR, 3850
PCB: AB002
SIZE: C
DRAWING NO: 85D002
REV: U
SCALE: NONE
SHEET: 4 OF 4

Figure 5-29. IVPAB002 (85D002) Processor PCB Assembly Schematic Sheet 4 of 4



REF. ELECTRONIC B.O.M. AS114

NOTES:

1. INSTALL AND SOLDER CONNECTOR PA20S IN PLACE ON COMPONENT SIDE OF IVP1115 AS SHOWN.

2. CLEAN, REBAG IN STATIC BAG AND ROUTE TO INSPECTION.

ITEM	PART NO.	QTY.	DESCRIPTION
2	PA20S	1	CONN, 20P HDR, SAMTEC TSW-120-07-G-S
1	IVP1115	1	DISPLAY, LCD W/ BACKLIGHT

Rev.	Description	Date
A	PER ECN 000181	16JAN07

Revision History

Tolerances unless otherwise noted on dwg.: .XX = ± --, .XXX = ± --, ∠ = ± --

Drawn: JRN Date: 16JAN07
Eng.: GRB Date: 31JUL06
Q.A.: FXC Date: 31JUL06
R.A.: FXC Date: 31JUL06
Mfg.: TWF Date: 31JUL06

Do NOT scale this drawing !

Third Angle Projection — INCH

Iradimed Corporation

Title: SUB-ASSEMBLY, LCD DISPLAY PCBA
Size: B
Part/Dwg. No: AS114
Rev: A
Cad. Scale: NONE
Sheet 1 of 1

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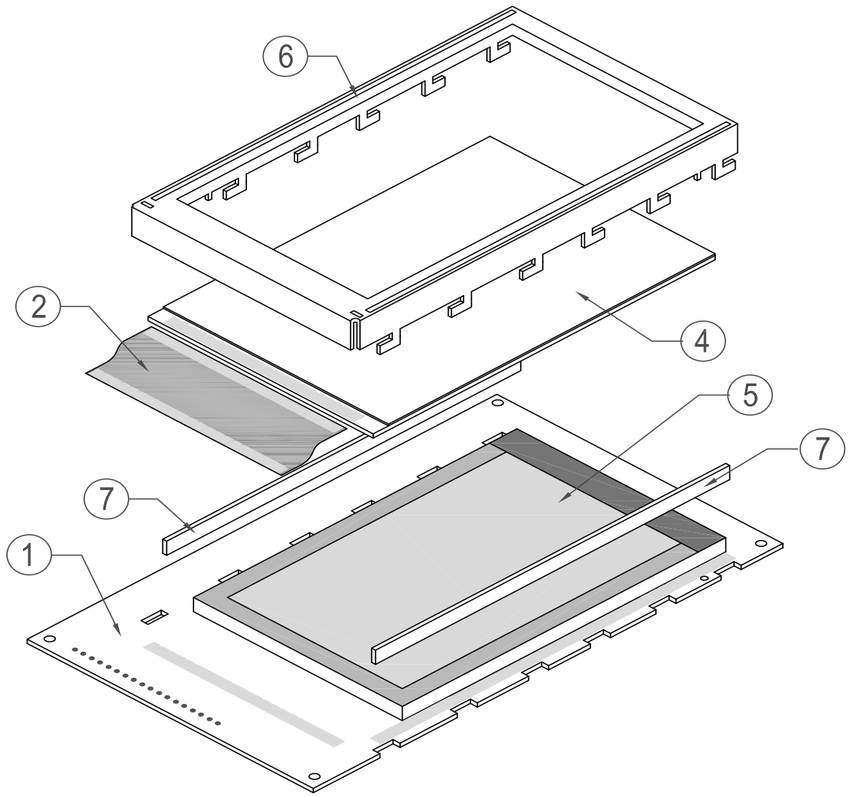
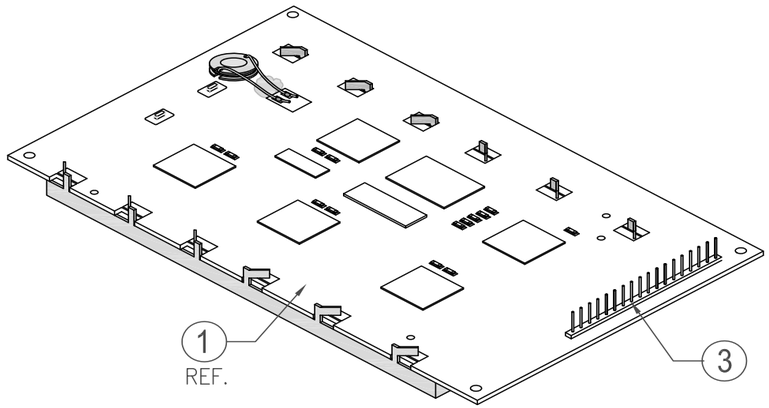
LF19 Rev. A

Figure 5-30. AS114 LCD DISPLAY ASSEMBLY





NOTES:

1. USING FIXTURE (TF17) ASSEMBLE CONDUCTIVE FLEX (ITEM 2) TO LCD GLASS (ITEM 4) USING HEAT SEAL MACHINE. ONCE BOND IS ACHIEVED, PLACE PCBA (ITEM 1) IN SECOND FIXTURE PARTS DOWN, LAY LCD GLASS WITH FLEX AGAINST BACK POSITIONED IN FIXTURE AND LOCK DOWN. NEXT, HEAT BOND FLEX TO GOLD FINGERS ON PCBA USING SAME TECHNIQUE WITH HEAT SEALER AS BONDING THE GLASS.

2. ASSEMBLE BACKLIGHT (ITEM 5) TO PCBA WHERE SHOWN BY SOLDERING 2 TABS IN PLACE ON PCBA. LAY 2 ZEBRA STRIPS (ITEM 7) ALONG SIDE OF LCD BACKLIGHT AS SHOWN BEING SURE TO COMPLETELY COVER GOLD FINGERS. FLIP LCD BACK OVER TO LAY ON TOP OF BACKLIGHT AND ZEBRA STRIPS.

3. ENCASE ENTIRE ASSEMBLY USING LCD BEZEL (ITEM 6) ALIGNING BOARD CUTOUTS AND PIN POSITIONERS THRU BOARD. BEND CAPTIVE LEGS AS SHOWN ON BACKSIDE OF PCB TO HOLD ASSEMBLY IN PLACE. SPOT SOLDER EACH TAB TO PADS ON PCBA. ROUTE ASSEMBLY TO DISPLAY TEST.

4. SOLDER 20 PIN SINGLE ROW HEADER (ITEM 3) TO BACKSIDE OF PCBA IN LOCATION I/0.

REF. ELECTRONIC B.O.M. AS114A REV. B

ITEM	PART NO.	QTY.	DESCRIPTION
7	HE32	2	CONN, ZEBRA, LCD, 146X6,2X3MM, .05 PITCH
6	IVP1115C	1	DISPLAY, LCD, ALUM. MOUNTING BEZEL
5	IVP1115B	1	DISPLAY, LCD BACKLIGHT, LED
4	IVP1115A	1	DISPLAY, LCD 240X128 W/POLAR, GLASS
3	PA20S	1	CONN, 20P HDR, SAMTEC TSW-120-07-G-S
2	B051	1	CONDUCTIVE FLEX CONNECTOR, 128 X 0.5MM
1	IVPAB053	1	PCBA, LCD DISPLAY DRIVER, 3850/60

Rev.	Description	Date
B	PER ECN 000477	05MAY13
A	PER ECN 000475	18APR13

Revision History

Tolerances unless otherwise noted on dwg.: .XX = ± --- .XXX = ± --- ∠ = ± ---

Drawn: JRN Date: 18APR13
Eng.: GRB Date: 05MAY13
Q.A.: FXC Date: 05MAY13
R.A.: FXC Date: 05MAY13
Mfg.: TWF Date: 05MAY13

Do NOT scale this drawing !

Third Angle Projection

Iradimed Corporation

Title: SUB-ASSEMBLY, LCD DISPLAY PCBA
Size: B
Part/Dwg. No: AS114A
Rev: B
Cad. Scale: NONE
Sheet 1 of 1

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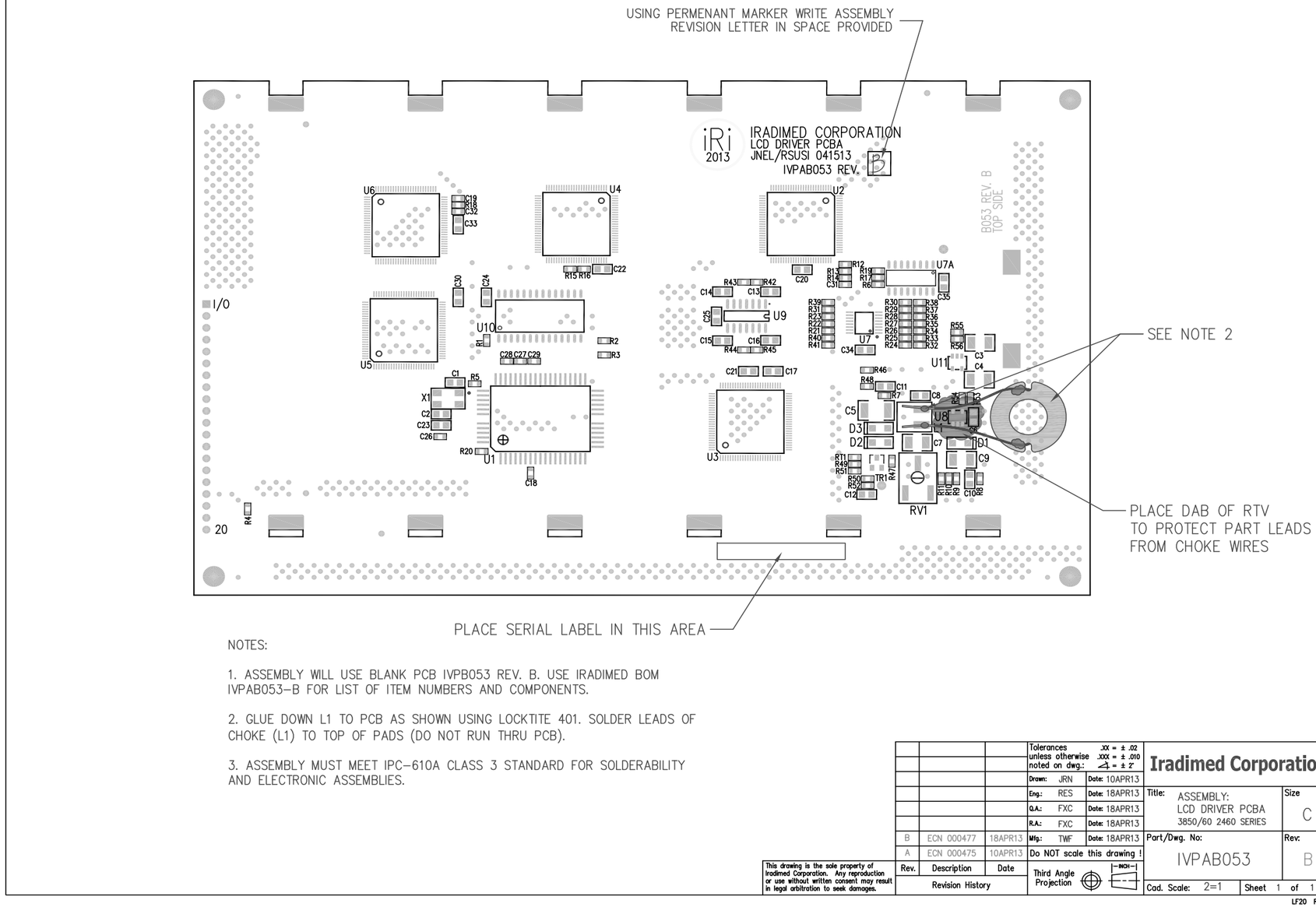
LF20 Rev. A

Figure 5-31. AS114A LCD DISPLAY ASSEMBLY



NOTES:

1. ASSEMBLY WILL USE BLANK PCB IVPB053 REV. B. USE IRADIMED BOM IVPAB053–B FOR LIST OF ITEM NUMBERS AND COMPONENTS.

2. GLUE DOWN L1 TO PCB AS SHOWN USING LOCKTITE 401. SOLDER LEADS OF CHOKE (L1) TO TOP OF PADS (DO NOT RUN THRU PCB).

3. ASSEMBLY MUST MEET IPC–610A CLASS 3 STANDARD FOR SOLDERABILITY AND ELECTRONIC ASSEMBLIES.

Rev.	Description	Date
B	ECN 000477	18APR13
A	ECN 000475	10APR13

Revision History

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Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn:	JRN	Date: 10APR13
Eng.:	RES	Date: 18APR13
Q.A.:	FXC	Date: 18APR13
R.A.:	FXC	Date: 18APR13
Mfg.:	TWF	Date: 18APR13

Do NOT scale this drawing !

Third Angle Projection — INCH

Iradimed Corporation

Title: ASSEMBLY: LCD DRIVER PCBA 3850/60 2460 SERIES

Size: C

Part/Dwg. No: IVPAB053

Rev: B

Cad. Scale: 2=1

Sheet 1 of 1

LF20 Rev. A

Figure 5-32. IVPAB053 Display PCBA

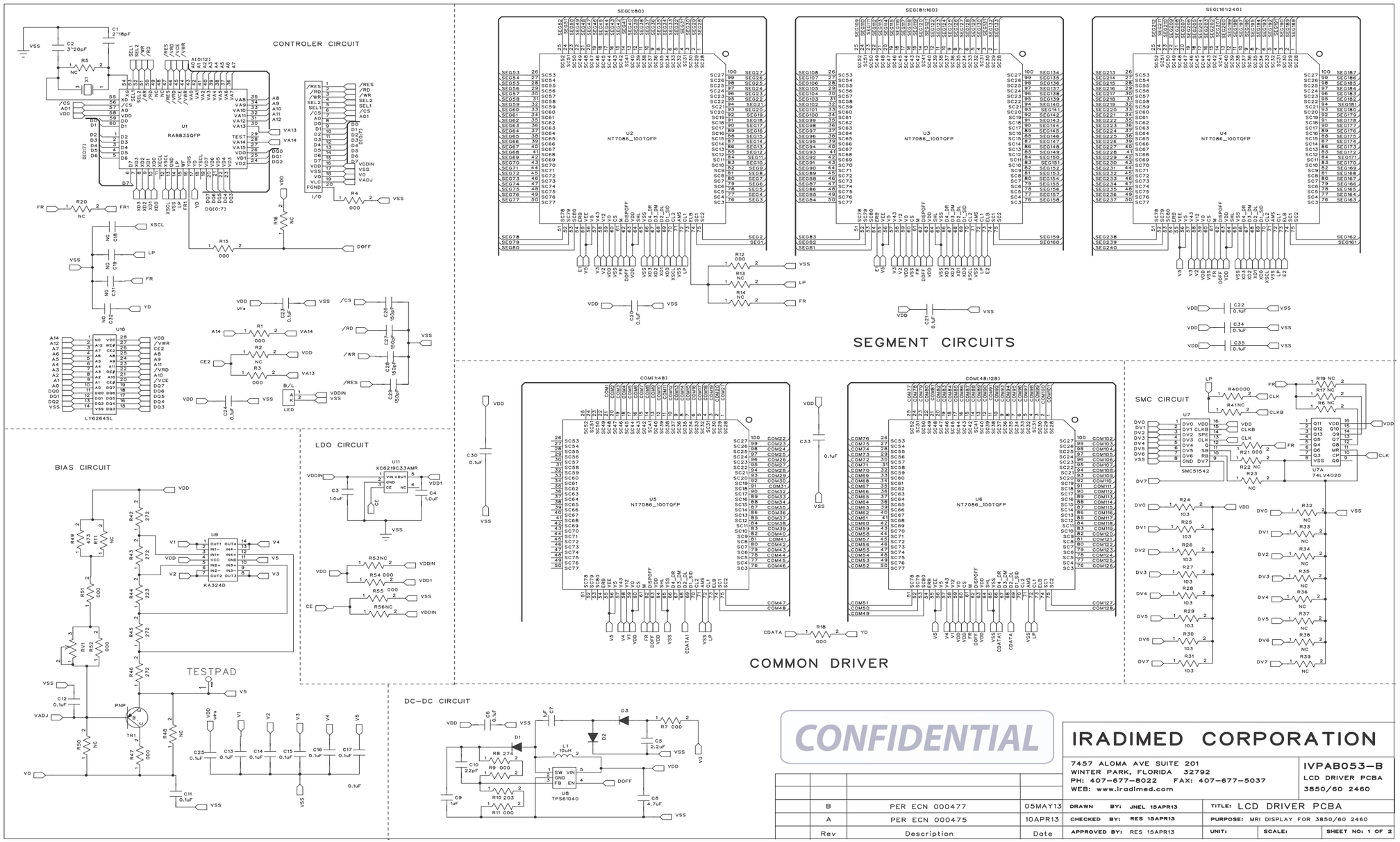
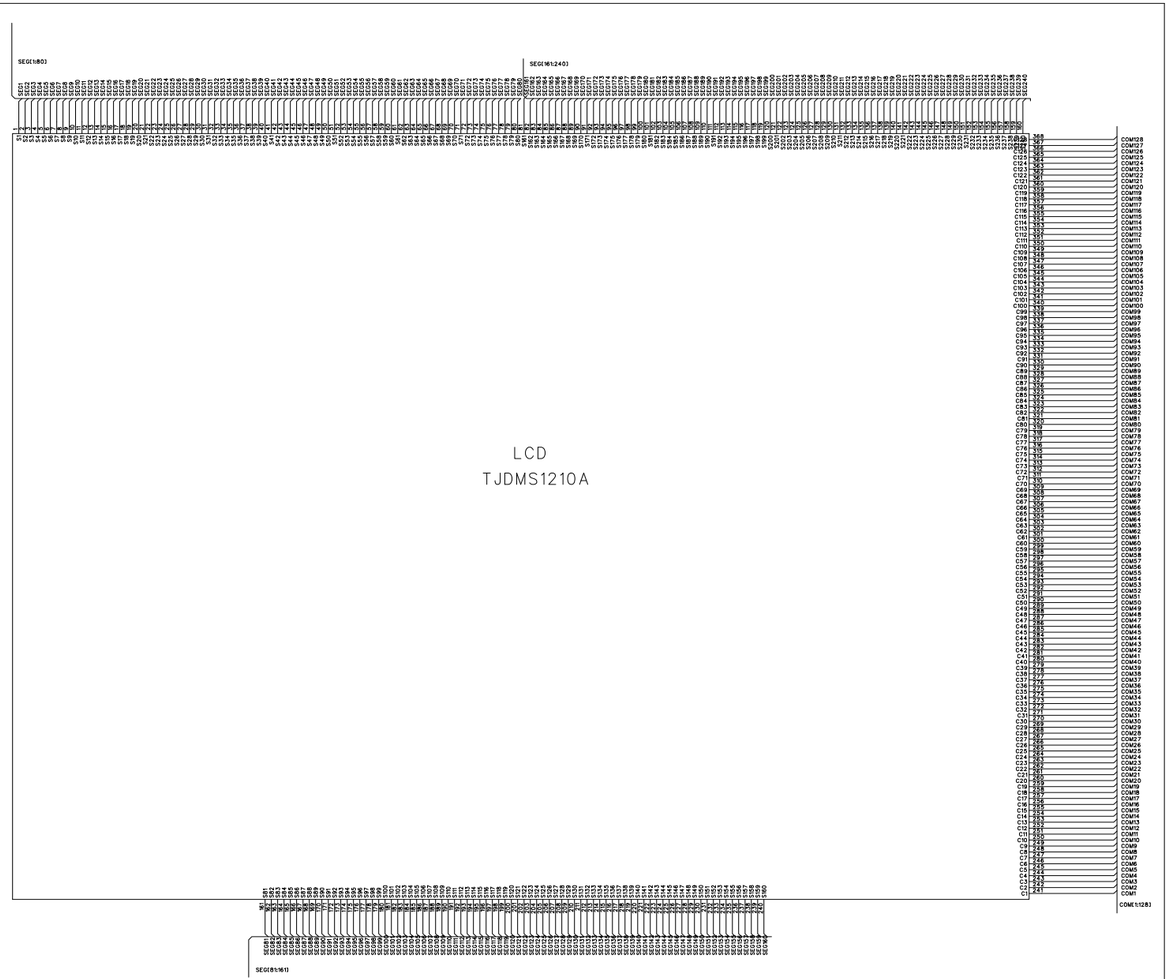


Figure 5-33. LCD Display Schematic (85D053) Page 1 of 2

Item	Reference	Part Name, Packaging	Qty
1	C1、C2	20pf 50V,0603,? ±5%	2
2	C3、C4、C7、C9	1.0uf 25V,0603,±10%	4
3	C5	2.2uF 25V,0805,±10%	1
4	C6、C11、C12、C13、C14 C15、C16、C17、C20、C21 C22、C23、C24、C25	0.1uf 25V,0603,±10%	14
5	C8	4.7uf 6.3V,0603,±10%	1
6	C10	22pf 50V,0603,±5%	1
7	C18、C19、C31、C32	NC 50V,0603,±5%	4
8	C26、C27、C28、C29	150pf 50V,0603,±5%	4
9	C30、C33	0.1uF 25V,0603,±10%	2
10	X1	E6SB10.0000F30E22F	1
11	D1、D2、D3	DIODE	3
12	I/O	Pitch=2.54mm	1
13	L1	LRB521S-30T1, SOD-523	1
14	B/L	LED, Pitch=2.54mm	1
15	U1	RA8835,QFP	1
16	U2、U3、U4、U5、U6	NT7086_COB, NT7086*	5
17	U7	SMC51542,SSOP-16PIN	1
18	U8	TPS61040,SOT-23-5	1
19	U9	KA324D,SOP-14	1
20	U10	LY62256SL,SOP-28	1
21	U11	XC6219C33AMR,SOT-23-5	1
22	TR1	MMBT3906LT1,SOT-23	1
23	R1、R3、R4、R7、R9、R11 、R12 R15、R18、R21 R39、R40、R47 R51、R52、R54、R55	0R,1/10W,0603,±5%	17
24	R24、R25、R26、R27 R28、R29、R30、R31	10K,1/10W,0603,±5%	8
26	R10	20K,1/10W,0603,±5%	1
27	R44	22K,1/10W,0603,±5%	1
28	R42、R43、R45、R46	2.7K,1/10W,0603,±5%	4
29	R8	270K,1/10W,0603,±5%	1
30	R49	47K,1/10W,0603,±5%	1
31	R2、R5、R13、R14、R16、 R20 R22、R23 R32、R33、R34、R35、R26 、R27、R38、R41、 R48、 R53、R56、RT1、R50	NC, 1/10W,0603,±5%	20
32	TEST	TESTPAD,	1
33	LCD	TJDMS1210A,	1
34	RV1	NC, EVN5	1



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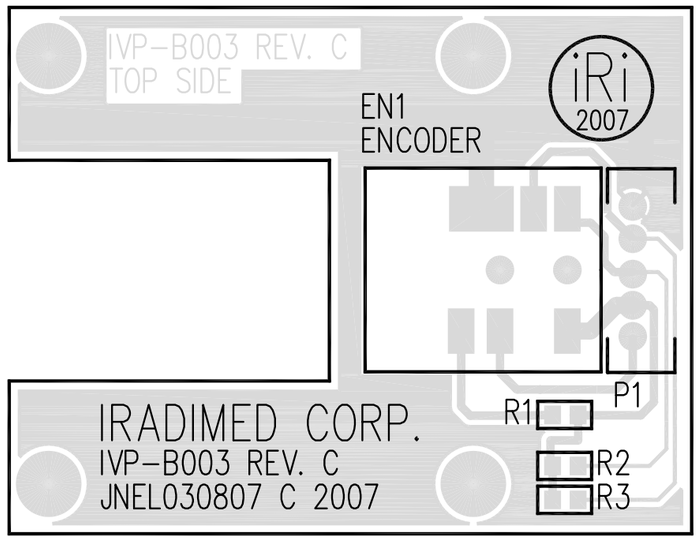
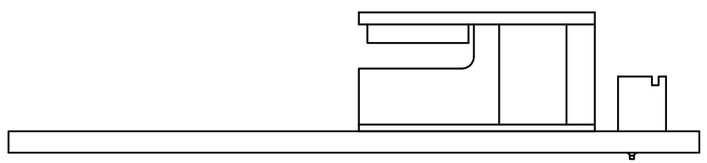
IVPAB053-B
LCD DRIVER PCBA
3850/60 2460

B	PER ECN 000477	05MAY13	DRAWN BY: JNEL 15APR13
A	PER ECN 000475	10APR13	CHECKED BY: RES 15APR13
Rev	Description	Date	APPROVED BY: RES 15APR13

TITLE: LCD DRIVER PCBA
PURPOSE: MRI DISPLAY FOR 3850/60 2460
UNIT:
SCALE:
SHEET NO: 2 OF 2

Figure 5-34. LCD Display Schematic (85D053) Page 2 of 2





NOTE:

1. DO NOT USE SOLVENT CLEANERS OR FLUX REMOVER ON THIS ASSEMBLY AS DAMAGE TO THE ENCODER DEVICE IS POSSIBLE WITH CONTACT TO THESE SUBSTANCES.

2. ASSEMBLY MUST MEET IPC-610A CLASS 3 STANDARD FOR SOLDERABILITY AND ELECTRONIC ASSEMBLIES.

REF. ELECTRONIC B.O.M. IVPAB003 REV. G

Rev.	Description	Date
G	PER ECN 000331	12JAN10
F	PER ECN 000189	08MAR07
E	PER ECN 000148	05DEC06
D	PER ECN 000128	20SEP06
C	PER ECN 000003	10OCT05
B	PROTOTYPE REV'S.	20JUL05
A	PROTOTYPE REV'S.	19JAN05

Revision History

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn: JRN Date: 12JAN05
Eng.: GRB Date: 12JAN10
Q.A.: FXC Date: 12JAN10
R.A.: FXC Date: 12JAN10
Mfg.: TWF Date: 12JAN10

Do NOT scale this drawing !

Third Angle Projection — INCH

Iradimed Corporation

Title: PCBA, ROTARY OPTICAL ENCODER

Size: B

Part/Dwg. No: IVPAB003

Rev: G

Cad. Scale: 3:1

Sheet 1 of 1

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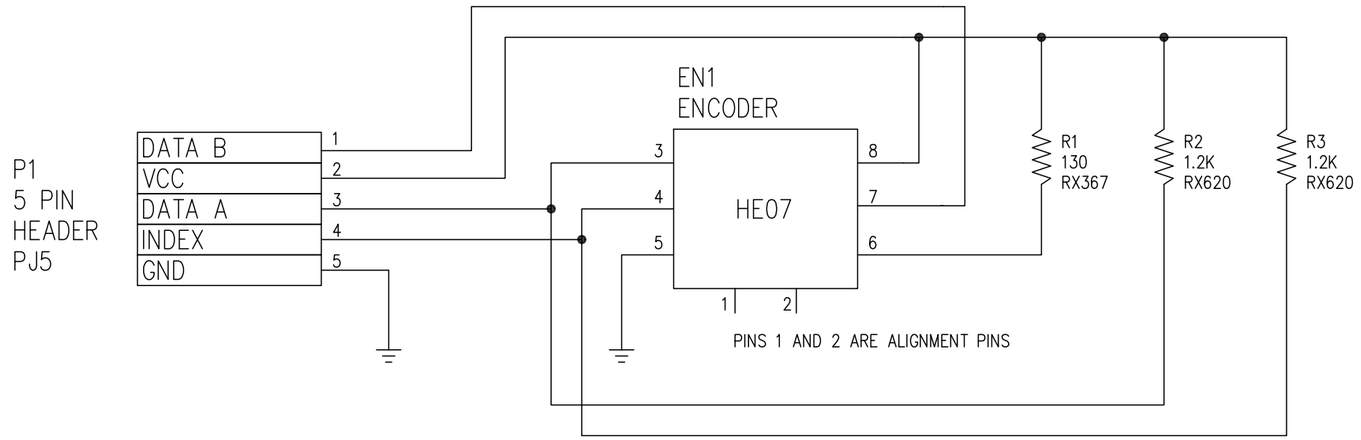
LF19 Rev. A

Figure 5-35. IVPAB003 Rotary Optical Encoder PCB Assembly



			Tolerances unless otherwise noted on dwg.:	.XX = ± .02 .XXX = ± .010 ∠ = ± 2°	**Iradimed Corporation**
			Drawn: JNEL	Date: 10/28/05	
			Eng.:	Date:	Title: SCHEMATIC AB003 PCB / Size: B
			Q.A.:	Date:	
			R.A.:	Date:	
			Mfg.:	Date:	Part/Dwg. No: 85B003 / Rev: 0
			Do NOT scale this drawing !		
Rev.	Description	Date	Third Angle Projection — INCH		Cad. Scale: NA / Sheet 1 of 1
Revision History					

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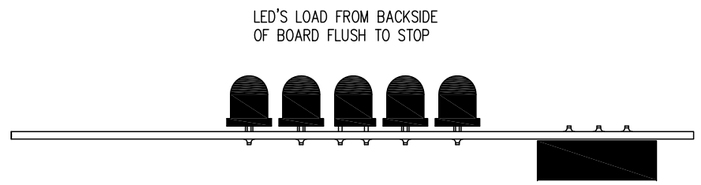
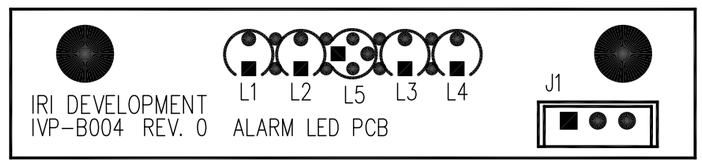
ECN 000006

LF19 Rev. A

Figure 5-36. IVPAB003 (85B003) PCB Assembly Schematic

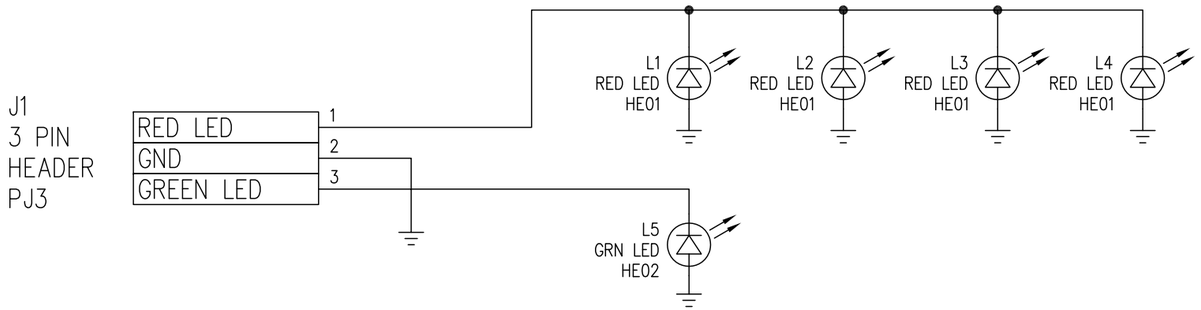




REF. ELECTRONIC B.O.M. IVPAB004

Rev.	Description	Date			
			SCALE 4:1	.X=0.05 .XX=0.01 .XXX=0.005	Iradimed Corporation
			DRAWN BY: John Nelson	DATE: 01-19-2005	
			This drawing is the sole property of Iradimed Corp. Any reproduction or use without consent may result in legal arbitration to seek damages.	Drawing Number: IVPAB004	REV: 0
				Drawing Name: PCBA, ALARM LED	Size: C
				SHEET 1 OF 1	

Figure 5-37. IVPAB004 Alarm LED PCB Assembly



			Tolerances unless otherwise noted on dwg.:	.XX = ± .02 .XXX = ± .010 ∠ = ± 2°	**Iradimed Corporation**
			Drawn: JNEL	Date: 10/28/05	
			Eng.:	Date:	Title: SCHEMATIC AB004 PCB
			Q.A.:	Date:	Size: B
			R.A.:	Date:	
			Mfg.:	Date:	Part/Dwg. No: 85B004
			Do NOT scale this drawing !		Rev: 0
Rev.	Description	Date	Third Angle Projection	INCH	Cad. Scale: NA
Revision History					Sheet 1 of 1

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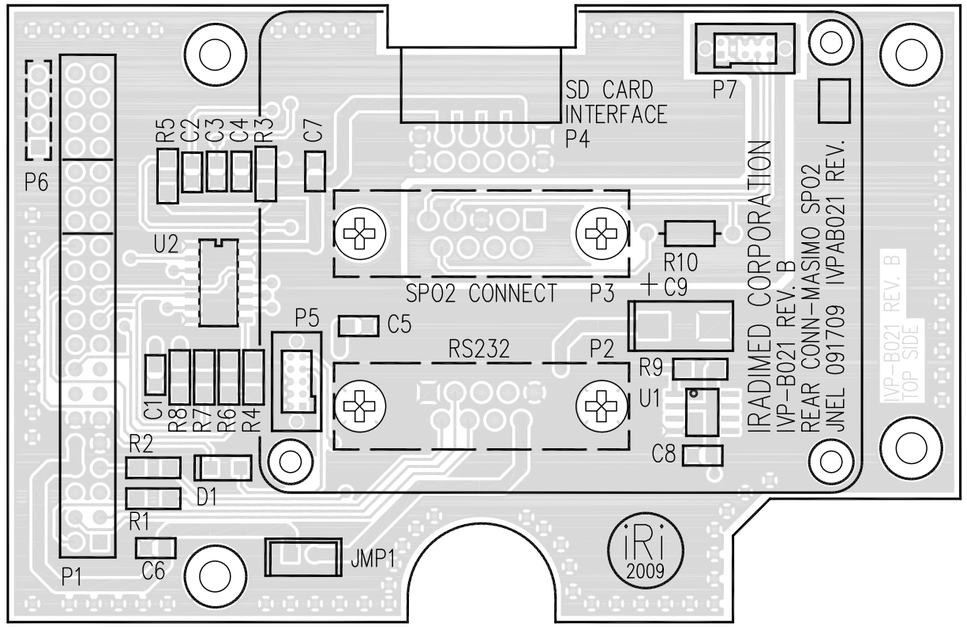
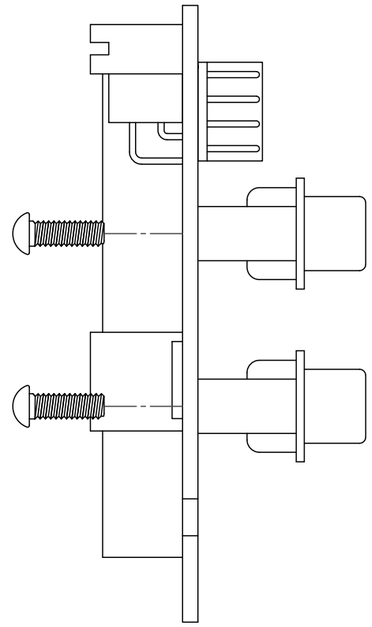
ECN 000006

LF19 Rev. A

Figure 5-38. IVPAB004 (85B004) Alarm LED PCB Assembly Schematic





NOTES:

1. INSTALL CONNECTORS AT LOCATIONS P2, P3 AND P6 FROM THE BACKSIDE OF PCB. USE 4 #4-40 SCREWS TO SECURE DB9 CONNECTORS AT LOCATION P2 AND P3 AS SHOWN.

2. ASSEMBLY MUST MEET IPC-610A CLASS 3 STANDARD FOR SOLDERABILITY AND ELECTRONIC ASSEMBLIES.

3. ASSEMBLY REVISION C WILL USE BLANK PCB IVPB021 REV. B USE IRADIMED BOM IVPAB021 REV. C FOR LIST OF ITEM NUMBERS AND COMPONENTS.

Rev.	Description	Date
C	ECN 000331	12JAN10
B	ECN 000298	17SEP09
A	ECN 000227	26MAR09

Revision History

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Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn:	JRN	Date: 15DEC08
Eng.:	RES	Date: 12JAN10
Q.A.:	FXC	Date: 12JAN10
R.A.:	FXC	Date: 12JAN10
Mfg.:	TWF	Date: 12JAN10

Do NOT scale this drawing !

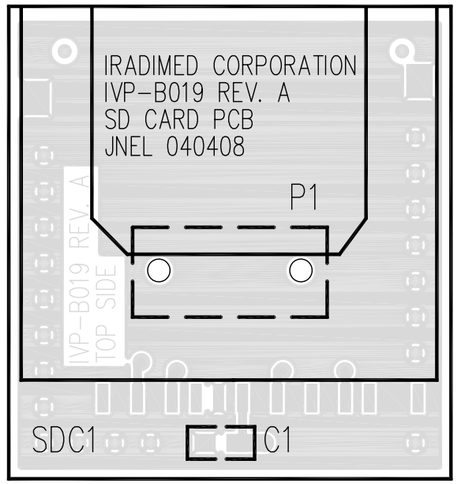
Third Angle Projection — INCH

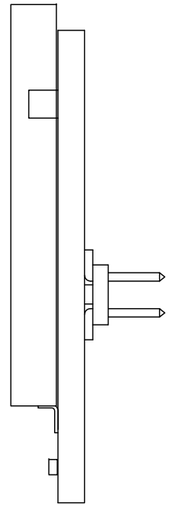
Iradimed Corporation

Title: PCBA, REAR CONN/ MASIMO Sp02, 3860	Size: B
Part/Dwg. No: IVPAB021	Rev: C
Cad. Scale: 2:1	Sheet 1 of 1

LF19 Rev. A

Figure 5-39. IVPAB021 Rear Panel Assembly, 3860+





NOTES:

1. INSTALL CONNECTOR AT LOCATION P1 AND FROM THE BACKSIDE OF PCB. INSURE MOUNTING PINS FROM P1 ARE FLUSH WITH FRONT SIDE OF PCB BEFORE INSTALLING SD CARD READER (LOCATION SDC1).

2. ASSEMBLY MUST MEET IPC-610A CLASS 3 STANDARD FOR SOLDERABILITY AND ELECTRONIC ASSEMBLIES.

3. ASSEMBLY REVISION B WILL USE BLANK PCB IVPB019 REV. A. USE IRADIMED BOM IVPAB019 REV. B FOR LIST OF ITEM NUMBERS AND COMPONENTS.

Rev.	Description	Date
B	ECN 000331	12JAN10
A	ECN 000227	04APR08

Revision History

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Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn:	JRN	Date: 04APR08
Eng.:	RES	Date: 12JAN10
Q.A.:	FXC	Date: 12JAN10
R.A.:	FXC	Date: 12JAN10
Mfg.:	TWF	Date: 12JAN10

Do NOT scale this drawing !

Third Angle Projection — INCH

Iradimed Corporation

Title: PCBA, SD CARD
PCBA, 3850/3860

Size: B

Part/Dwg. No: IVPAB019

Rev: B

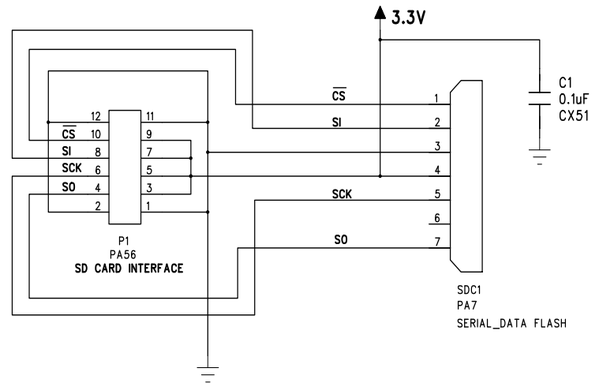
Cad. Scale: 3:1

Sheet 1 of 1

LF19 Rev. A

Figure 5-40. IVPAB019 Data Card PCB Assembly

REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:
A	RELEASE ECN 000227	JRN	08APR08



DRAWN: JNEL	DATED: 08APR08
CHECKED:	DATED:
QUALITY CONTROL:	DATED:
RELEASED:	DATED:

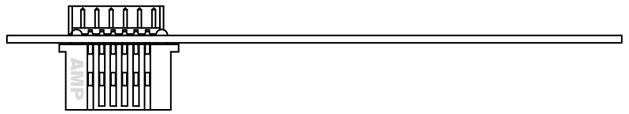
COMPANY: Iradimed Corporation

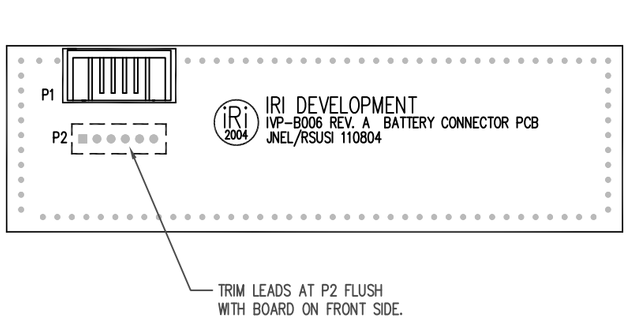
TITLE: SCHEMATIC: IVPAB019
SERIAL DATA CARD PCBA
3850/3860

CODE:	SIZE:	DRAWING NO:	REV:
AB019	B	85B019	A

SCALE: NA SHEET: 1 OF 1

Figure 5-41. IVPAB019 (85B019) Data Card PCB Assembly Schematic





NOTES:

1. ASSEMBLY MUST MEET IPC-610A CLASS 3 STANDARD FOR SOLDERABILITY AND ELECTRONIC ASSEMBLIES.

REF. ELECTRONIC B.O.M. IVPAB006

Rev.	Description	Date
A	PER ECN 000331	12JAN10

Revision History

Tolerances unless otherwise noted on dwg.: .xx = ± .02, .xxx = ± .010, ∠ = ± 2°

Drawn: JRN Date: 19JAN05
Eng.: GRB Date: 12JAN10
Q.A.: FXC Date: 12JAN10
R.A.: FXC Date: 12JAN10
Mfg.: TWF Date: 12JAN10

Do NOT scale this drawing !

Third Angle Projection

Iradimed Corporation

Title: PCBA, BATTERY CONN. 3850/60

Size: C

Part/Dwg. No: IVPAB006

Rev: A

Cad. Scale: 2:1 Sheet 1 of 1

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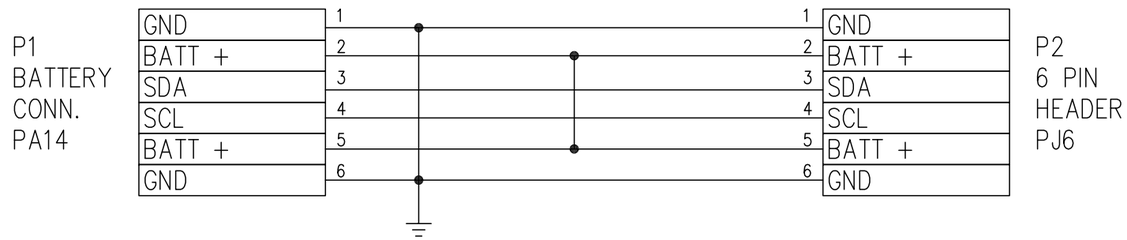
LF19 Rev. A

Figure 5-42. IVPAB006 Battery Interconnect PCB Assembly



			Tolerances unless otherwise noted on dwg.:	.XX = ± .02 .XXX = ± .010 ∠ = ± 2°	**Iradimed Corporation**
			Drawn: JNEL	Date: 10/28/05	
			Eng.:	Date:	Title: SCHEMATIC AB006 PCB / Size: B
			Q.A.:	Date:	
			R.A.:	Date:	
			Mfg.:	Date:	Part/Dwg. No: 85B006 / Rev: 0
			Do NOT scale this drawing !		
Rev.	Description	Date	Third Angle Projection	INCH	Cad. Scale: NA / Sheet 1 of 1

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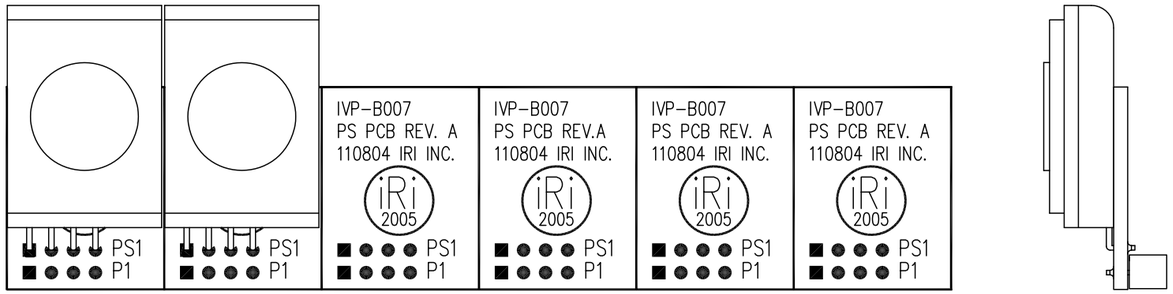
Revision History

ECN 000006

LF19 Rev. A

Figure 5-43. IVPAB006 (85B006) Battery Interconnect PCB Assembly Schematic



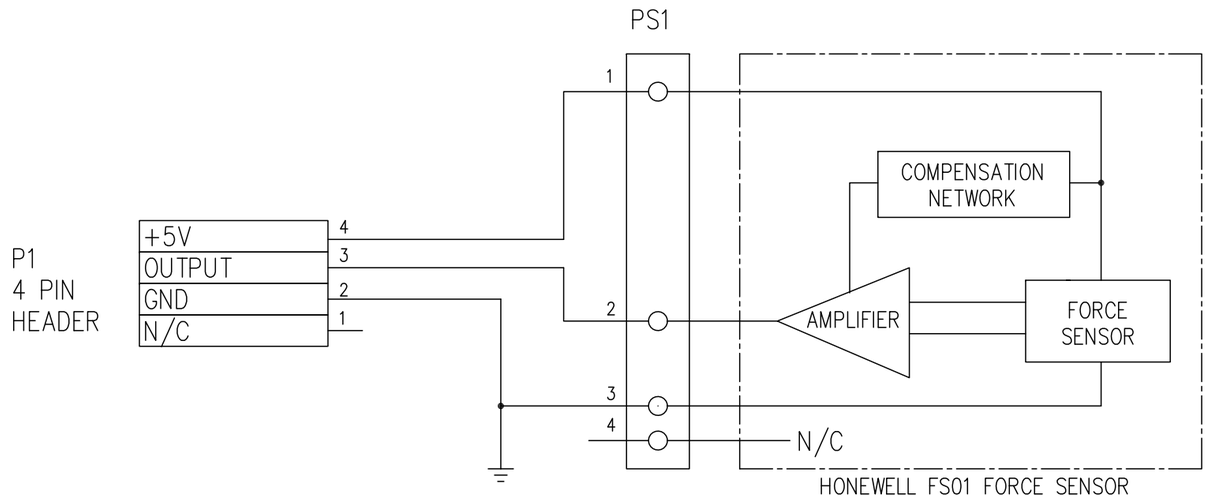
NOTES:
1. ASSEMBLE AND SOLDER PARTS TO BOARD PRIOR TO SNAPPING AT SCORE LINE.

2. MOUNT P1 ON THE BACKSIDE OF BOARD AS SHOWN IN SIDE VIEW.

REF. ELECTRONIC B.O.M. IVPAB007

			SCALE 2:1	.X=0.05 .XX=0.01 .XXX=0.005	**Iradimed Corporation**
			DRAWN BY	DATE	
			John Nelson	01-19-2005	
					Drawing Number IVPAB007 — REV 0
			This drawing is the sole property of Iradimed Corp. Any reproduction or use without consent may result in legal arbitration to seek damages.		Drawing Name PCBA, PRESSURE SENSOR — Size C
Rev.	Description	Date			SHEET 1 OF 1

Figure 5-44. IVPAB007 Pressure Sensor PCB Assembly



			Tolerances unless otherwise noted on dwg.:	.XX = ± .02 .XXX = ± .010 ∠ = ± 2°	**Iradimed Corporation**
			Drawn: JNEL	Date: 12/06/05	
			Eng.:	Date:	Title: SCHEMATIC AB007 PCB — Size: B
			Q.A.:	Date:	
			R.A.:	Date:	
			Mfg.:	Date:	Part/Dwg. No: 85B007 — Rev: 0
			Do NOT scale this drawing !		
Rev.	Description	Date	Third Angle Projection — INCH		Cad. Scale: NA — Sheet 1 of 1
Revision History					

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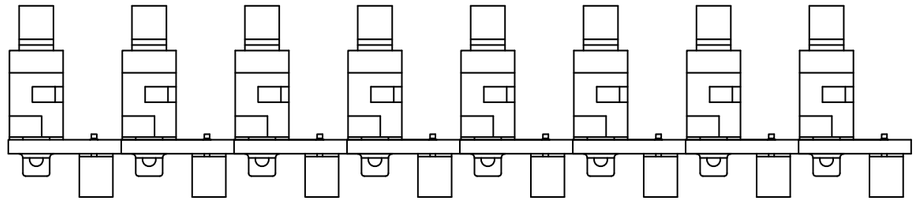
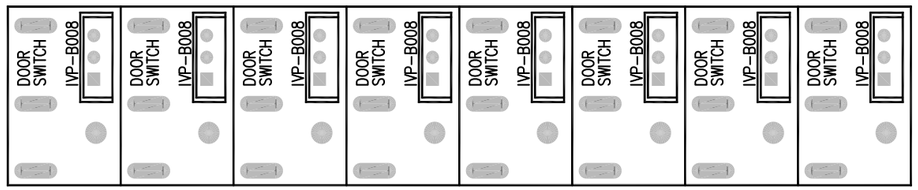
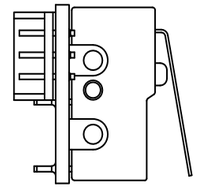
ECN 000006

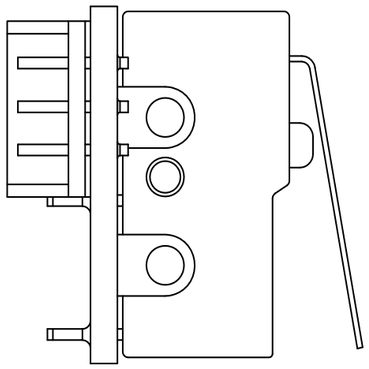
LF19 Rev. A

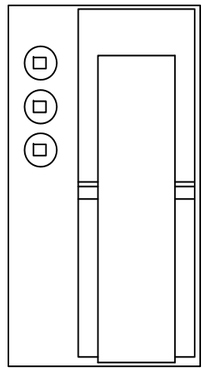
Figure 5-45. IVPAB007 (85B007) Pressure Sensor PCB Assembly Schematic











NOTE:

1. AFTER ASSEMBLY OF ALL 8 PCBA'S ON PANEL, BREAK AWAY BOARDS AT SCORE LINES INTO INDIVIDUAL COMPONENTS.

2. ROUTE TO INSPECTION.

3. ASSEMBLY MUST MEET IPC-610A CLASS 3 STANDARD FOR SOLDERABILITY AND ELECTRONIC ASSEMBLIES.

REF. ELECTRONIC B.O.M. IVPAB008 REV. D

Rev.	Description	Date
D	PER ECN 000346	10MAY10
C	PER ECN 000331	12JAN10
B	PER ECN 000193	27MAR07
A	PER ECN 000111	28JUL06

Revision History

Tolerances unless otherwise noted on dwg.: .xx = ± .02, .xxx = ± .010, ∠ = ± 2°

Drawn: JRN Date: 10JAN05
Eng.: RES Date: 10MAY10
Q.A.: FXC Date: 10MAY10
R.A.: FXC Date: 10MAY10
Mfg.: TWF Date: 10MAY10

Do NOT scale this drawing !

Third Angle Projection

Iradimed Corporation

Title: PCBA DOOR SWITCH

Size: C

Part/Dwg. No: IVPAB008

Rev: D

Cad. Scale: 3:1 Sheet 1 of 1

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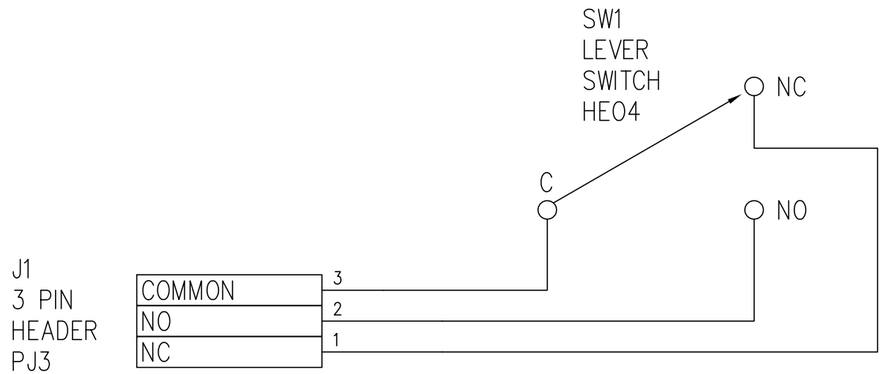
LF19 Rev. A

Figure 5-46. IVPAB008 Door Switch PCB Assembly



			Tolerances unless otherwise noted on dwg.:	.XX = ± .02 .XXX = ± .010 ∠ = ± 2°	**Iradimed Corporation**
			Drawn: JNEL	Date: 11/03/05	
			Eng.:	Date:	Title: SCHEMATIC AB008 PCB / Size: B
			Q.A.:	Date:	
			R.A.:	Date:	
			Mfg.:	Date:	Part/Dwg. No: 85B008 / Rev: 0
			Do NOT scale this drawing !		
Rev.	Description	Date	Third Angle Projection	INCH	Cad. Scale: NA / Sheet 1 of 1
Revision History					

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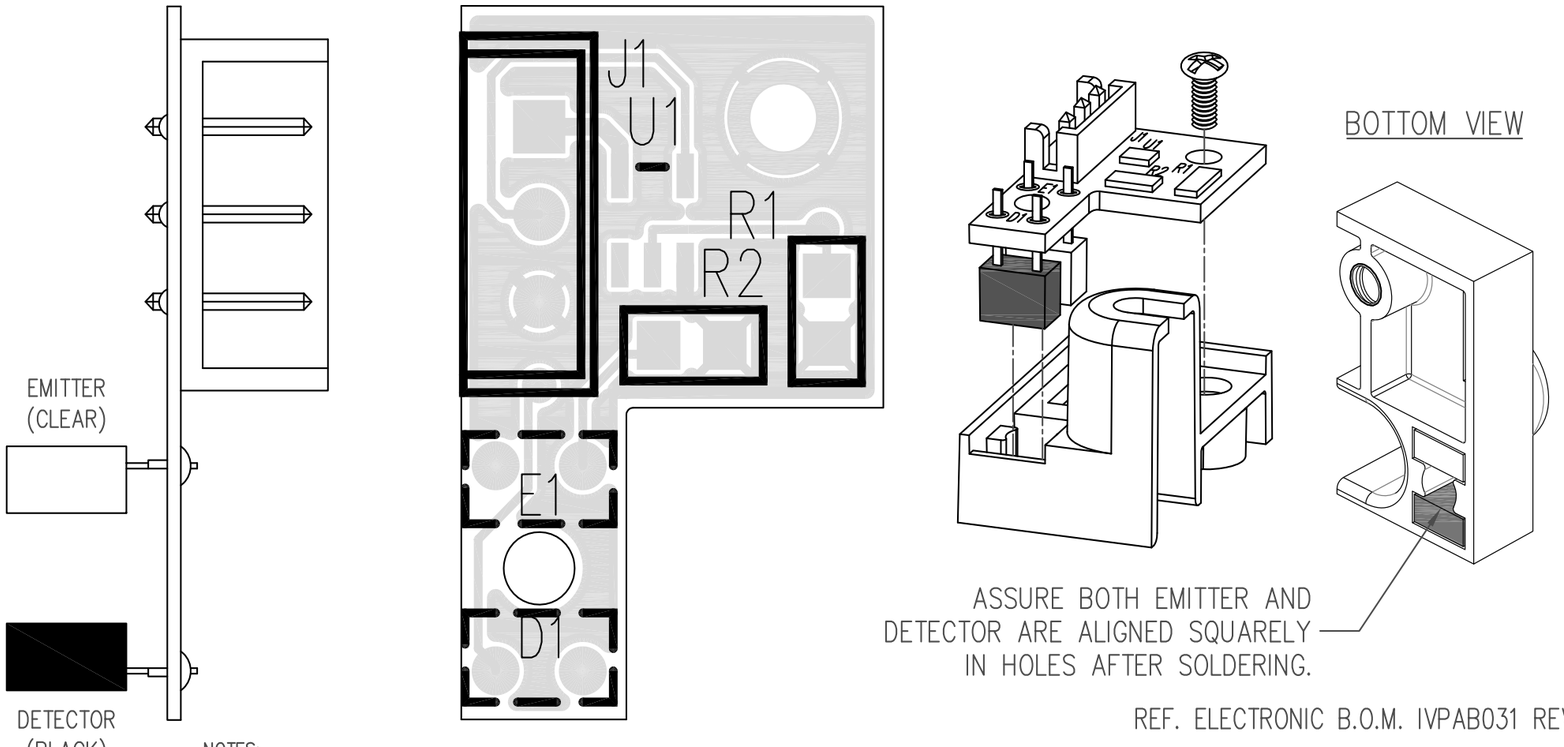
ECN 000006

LF19 Rev. A

Figure 5-47. IVPAB008 (85B008) Door Switch PCB Assembly Schematic



NOTES:

1. INSERT PHOTO DETECTOR AND EMITTER (D1 AND E1) FROM BOTTOM SIDE OF BOARD AS SHOWN (DO NOT SOLDER). INSTALL BOARD ASSEMBLY TO PLASTIC MOUNT (IVP1127) WITH #2–56 SCREW. PLACE ASSEMBLY ON FLAT SURFACE AND ALLOW D1 AND E1 TO FALL LEVEL WITH BASE OF MOUNT. SOLDER IN PLACE AND TRIM EXCESS LEADS.

2. ASSEMBLY MUST MEET IPC–610A CLASS 3 STANDARD FOR SOLDERABILITY AND ELECTRONIC ASSEMBLIES.

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Rev.	Description	Date
A	ECN 000357	21OCT10
01	PROTOTYPE	01SEP10

Revision History

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn: JRN Date: 01SEP10
Eng.: GRB Date: 21OCT10
Q.A.: FXC Date: 21OCT10
R.A.: FXC Date: 21OCT10
Mfg.: TWF Date: 21OCT10

Do NOT scale this drawing !

Third Angle Projection — INCH

Iradimed Corporation

Title: ASSEMBLY: DOOR DETECTOR PCB 3850, 3851, 3860, 3861

Size: B

Part/Dwg. No: IVPAB031

Rev: A

Cad. Scale: 2:1

Sheet 1 of 1

LF19 Rev. A

Figure 5-48. IVPAB031 Optic Door Sensor PCBA*

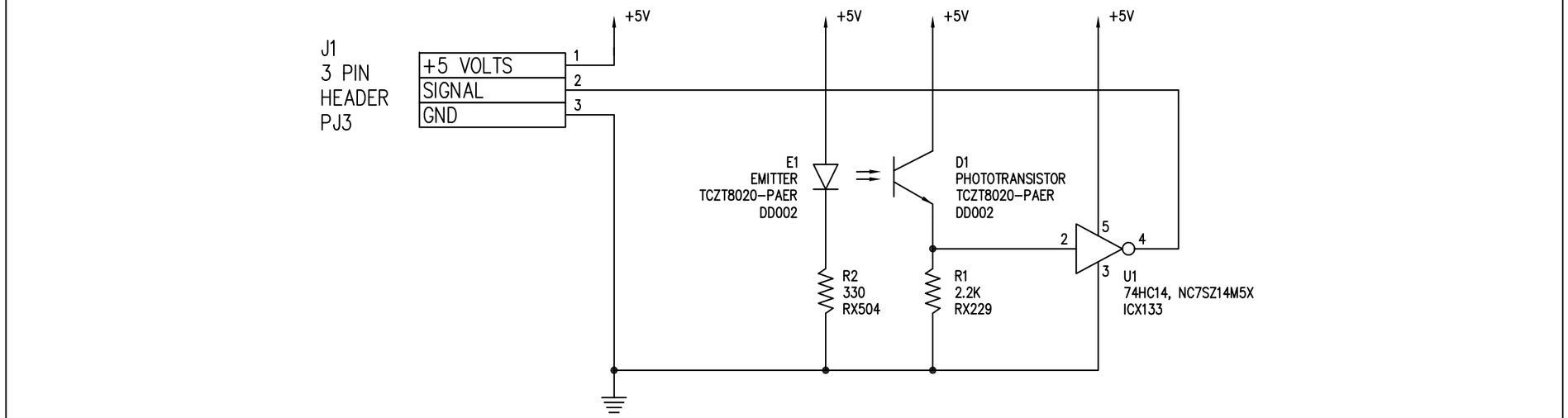
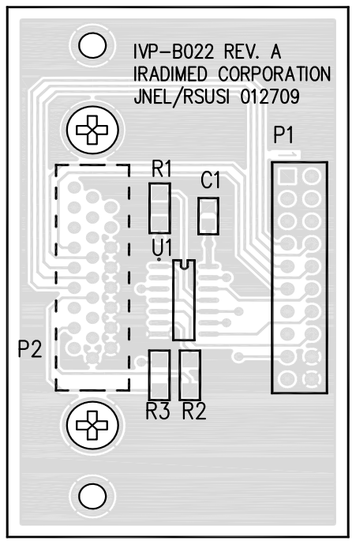
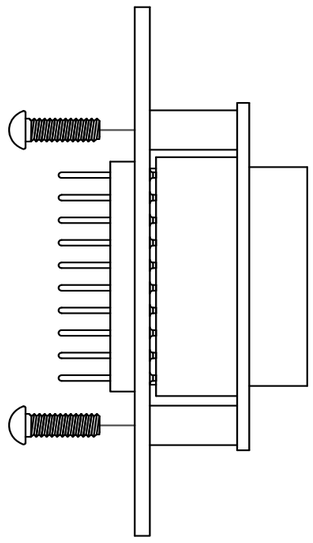


Figure 5-49. IVPAB031 (85B031) Optic Door Sensor PCBA Schematic*





NOTES:

1. MOUNT CONNECTOR AT LOCATION P2 FROM BACKSIDE OF PCB USING 2 #4-40 X 3/8 SCREWS (NS13).

2. ASSEMBLY MUST MEET IPC-610A CLASS 3 STANDARD FOR SOLDERABILITY AND ELECTRONIC ASSEMBLIES.

REF. ELECTRONIC B.O.M. IVPAB022 REV. B

Rev.	Description	Date
B	ECN 000331	12JAN10
A	ECN 000270	27JAN09

Revision History

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn: JRN	Date: 12DEC08	
Eng.: RES	Date: 12JAN10	
Q.A.: FXC	Date: 12JAN10	
R.A.: FXC	Date: 12JAN10	
Mfg.: TWF	Date: 12JAN10	

Do NOT scale this drawing !

Third Angle Projection — INCH

Iradimed Corporation

Title: PCBA, INTERCONNECT 3860/50 V2 PUMP

Size: B

Part/Dwg. No: IVPAB022

Rev: B

Cad. Scale: 2:1

Sheet 1 of 1

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LF19 Rev. A

Figure 5-50. IVPAB022 SideCar I/O PCB Assembly.

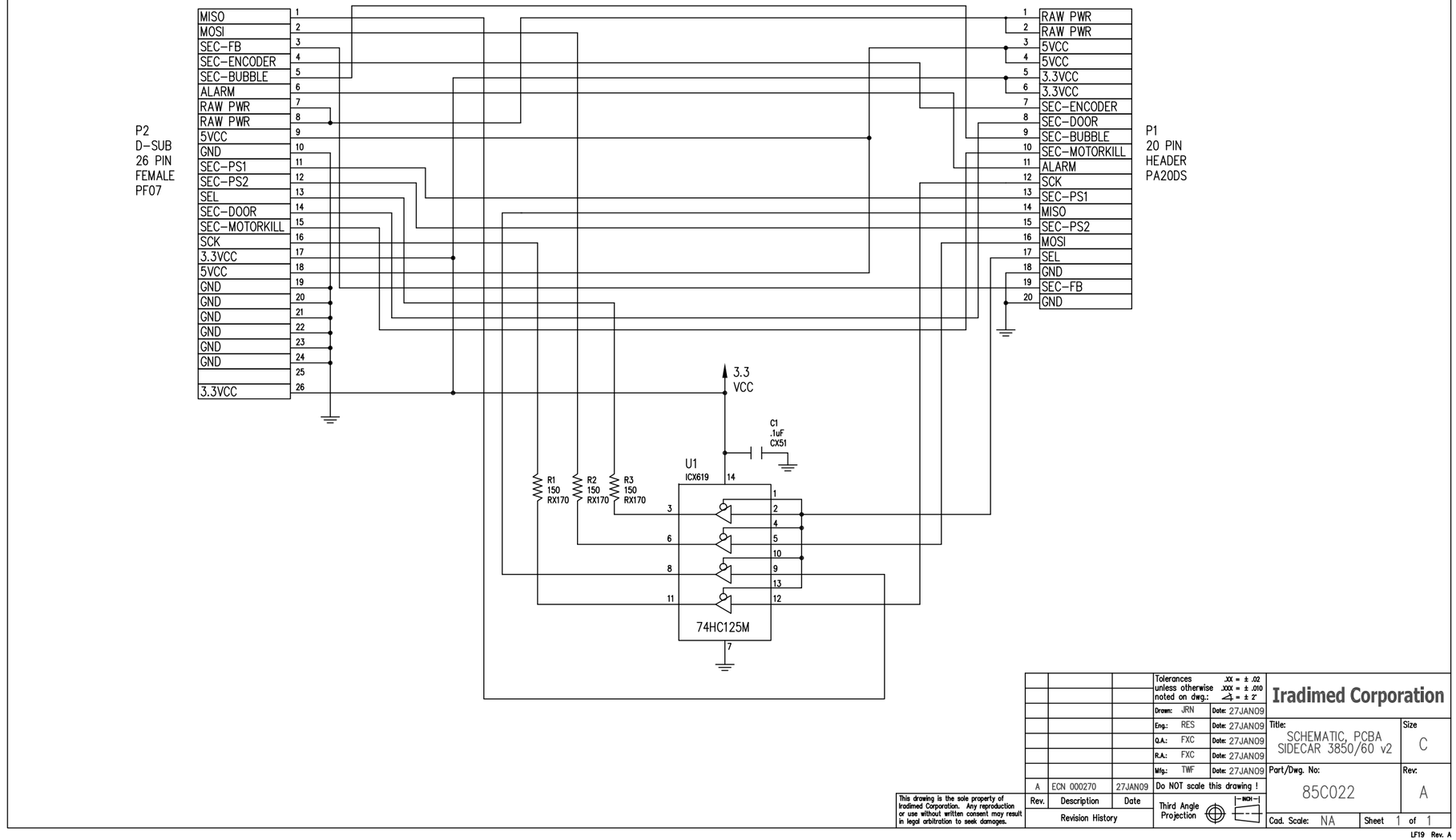
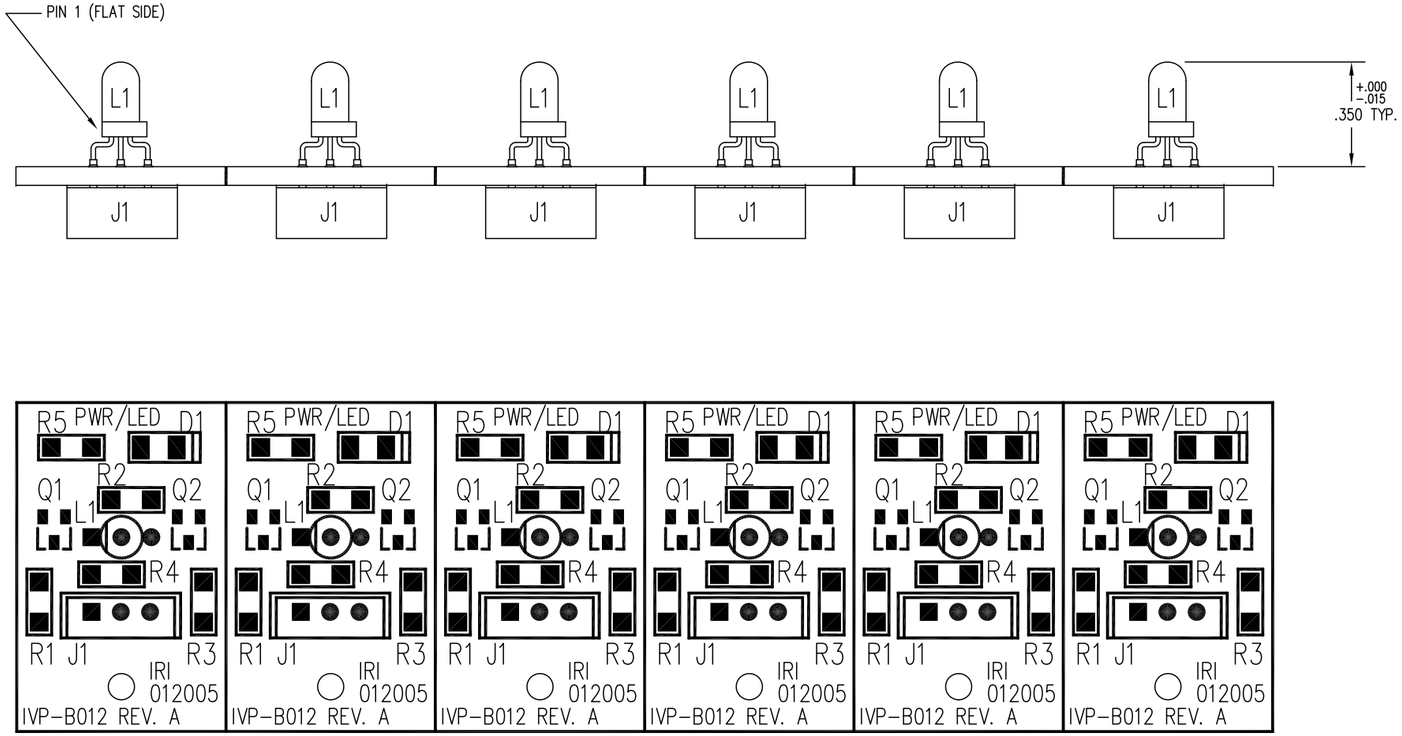


Figure 5-51. IVPAB022 (85B022) SideCar I/O PCB Assembly Schematic



NOTES:

1. LED AT L1 LOCATION TO BE PLACED ON BACKSIDE OF BOARD SPACED AT 0.350" ABOVE BOARD SURFACE.
2. USE MANUFACTURING BOM IVPAB012-C.XLS FOR ASSEMBLY.

REF. ELECTRONIC B.O.M. IVPAB012

Rev.	Description	Date
B	PER ECN 000013	16NOV05
A	PROTO. REV'S.	20JAN05

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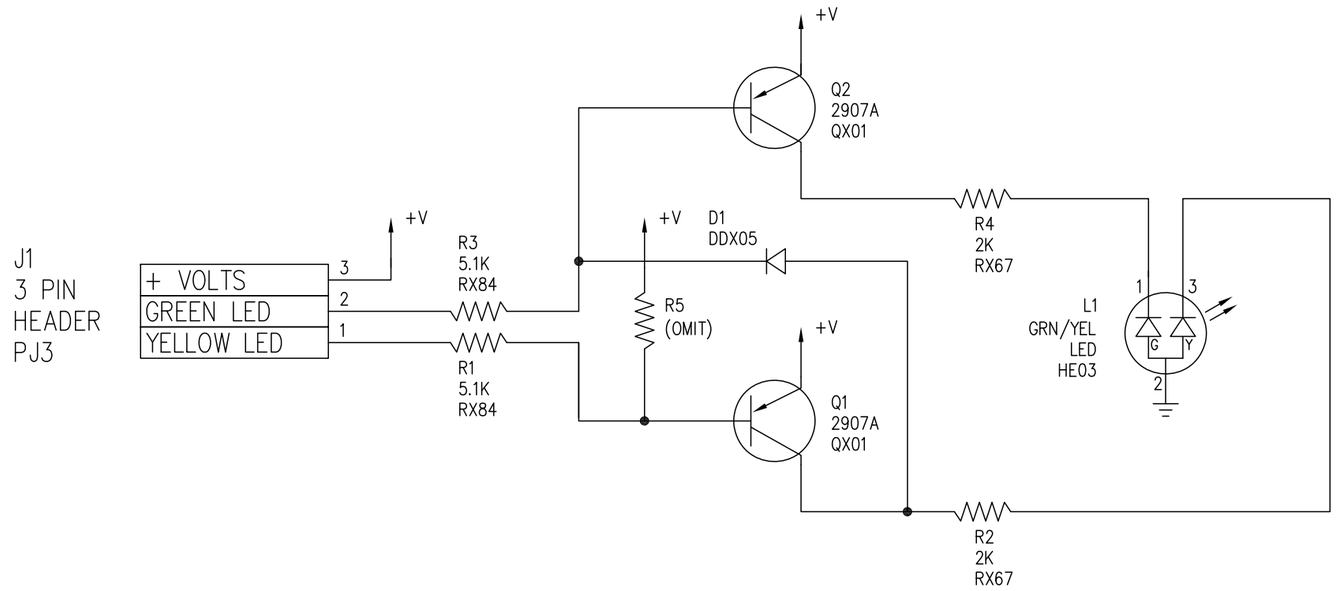
SCALE 4:1 | .X=0.05 .XX=0.01 .XXX=0.005
DRAWN BY: John Nelson | DATE: 01-20-2005

Iradimed Corporation

Drawing Number: IVPAB012 | REV: B

Drawing Name: PCBA, POWER INDICATOR | SHEET 1 OF 1 | Size: C

Figure 5-52. IVPAB012 Power Indicator PCB Assembly



			Tolerances unless otherwise noted on dwg.:	.XX = ± .02 .XXX = ± .010 ∠ = ± 2°
			Drawn: JNEL	Date: 11/01/05
			Eng.:	Date:
			Q.A.:	Date:
			R.A.:	Date:
			Mfg.:	Date:
A	PER ECN 000013	16NOV05	Do NOT scale this drawing !	
Rev.	Description	Date	Third Angle Projection	INCH

Revision History

This drawing is the sole property of Iradimed Corporation. Any reproduction or use without written consent may result in legal arbitration to seek damages.

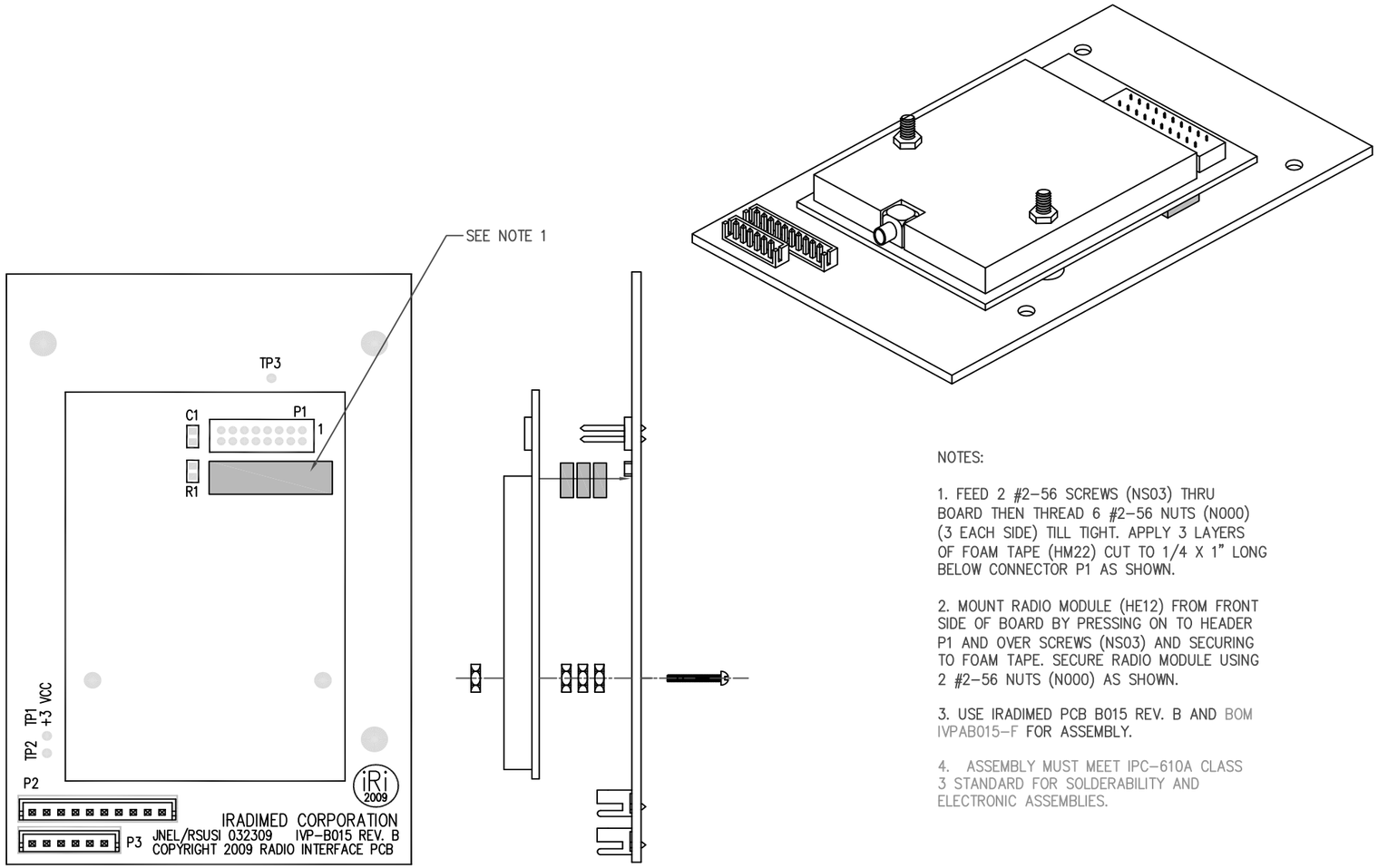
Iradimed Corporation

Title: SCHEMATIC AB012 PCB	Size: B
Part/Dwg. No: 85B012	Rev: A
Cad. Scale: NA	Sheet 1 of 1

ECN 000006

LF19 Rev. A

Figure 5-53. IVPAB012 (85B012) Power Indicator PCB Assembly Schematic



NOTES:

1. FEED 2 #2–56 SCREWS (NS03) THRU BOARD THEN THREAD 6 #2–56 NUTS (N000) (3 EACH SIDE) TILL TIGHT. APPLY 3 LAYERS OF FOAM TAPE (HM22) CUT TO 1/4 X 1" LONG BELOW CONNECTOR P1 AS SHOWN.

2. MOUNT RADIO MODULE (HE12) FROM FRONT SIDE OF BOARD BY PRESSING ON TO HEADER P1 AND OVER SCREWS (NS03) AND SECURING TO FOAM TAPE. SECURE RADIO MODULE USING 2 #2–56 NUTS (N000) AS SHOWN.

3. USE IRADIMED PCB B015 REV. B AND BOM IVPAB015–F FOR ASSEMBLY.

4. ASSEMBLY MUST MEET IPC–610A CLASS 3 STANDARD FOR SOLDERABILITY AND ELECTRONIC ASSEMBLIES.

Rev.	Description	Date
F	ECN 000331	12JAN10
E	ECN 000283	24MAR09
D	ECN 000244	24MAR08
C	ECN 000193	27MAR07
B	ECN 000086	09MAY06
A	ECN 000064	15MAR06
0	INITIAL RELEASE	17NOV05

Revision History

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn: JRN Date: 17NOV05
Eng.: RES Date: 12JAN10
Q.A.: FXC Date: 12JAN10
R.A.: FXC Date: 12JAN10
Mfg.: TWF Date: 12JAN10

Do NOT scale this drawing !

Third Angle Projection — INCH

Iradimed Corporation

Title: PCBA, RADIO MOUNT/INTERCONNECT
Size: C
Part/Dwg. No: IVPAB015
Rev: F
Cad. Scale: 2:1
Sheet 1 of 1

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ECN 000006

LF20 Rev. A

Figure 5-54. IVPAB015 2.4 GHz Radio Interface PCB

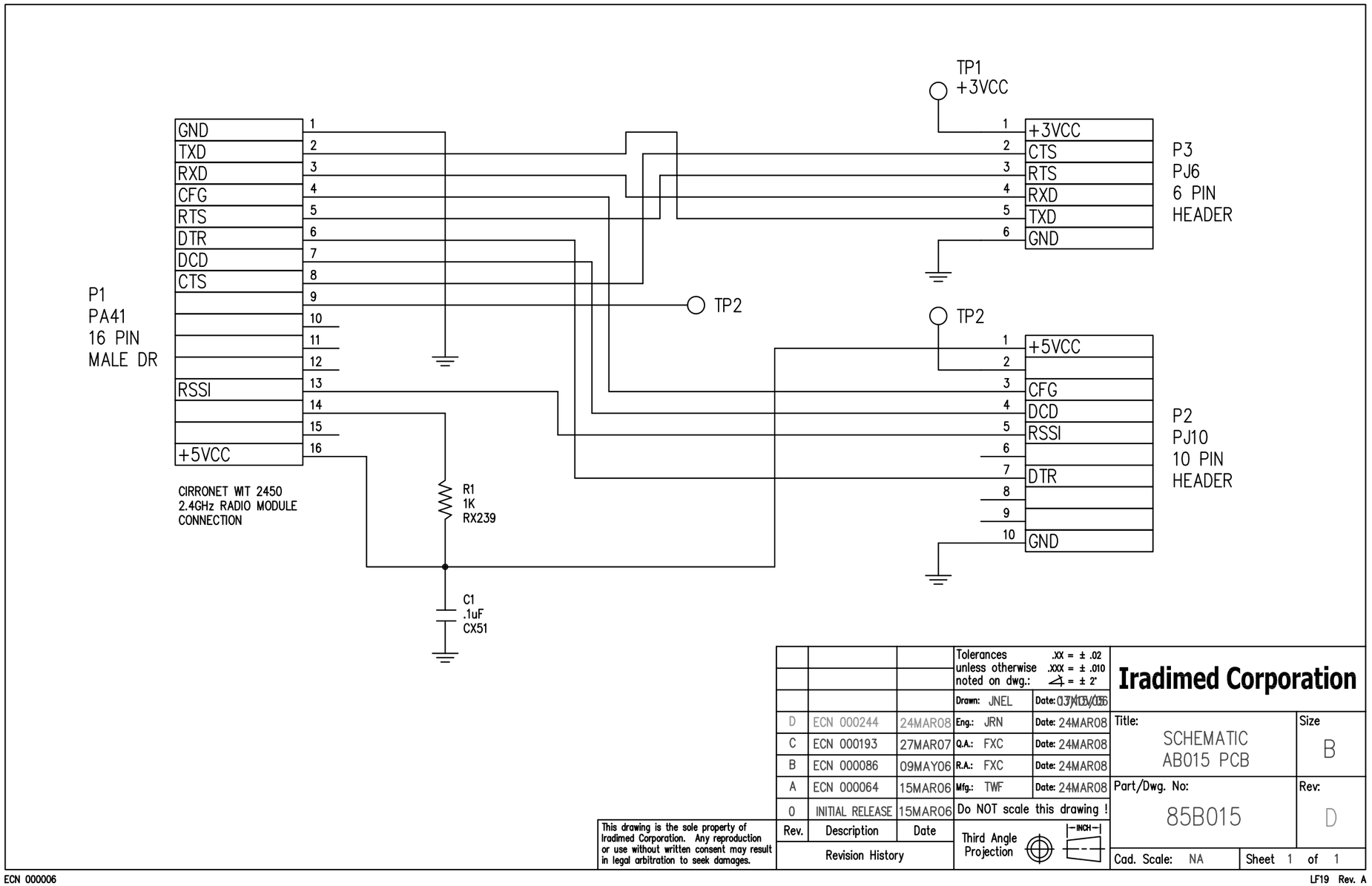
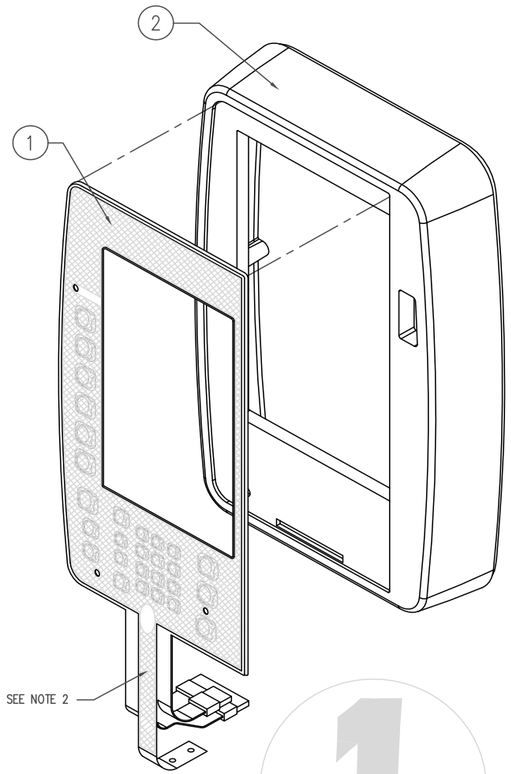
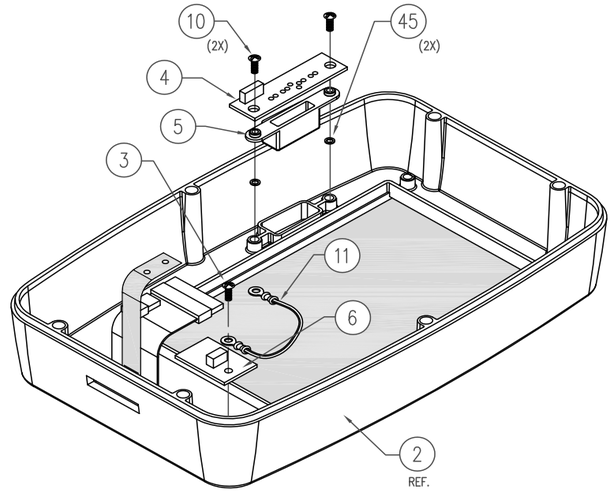
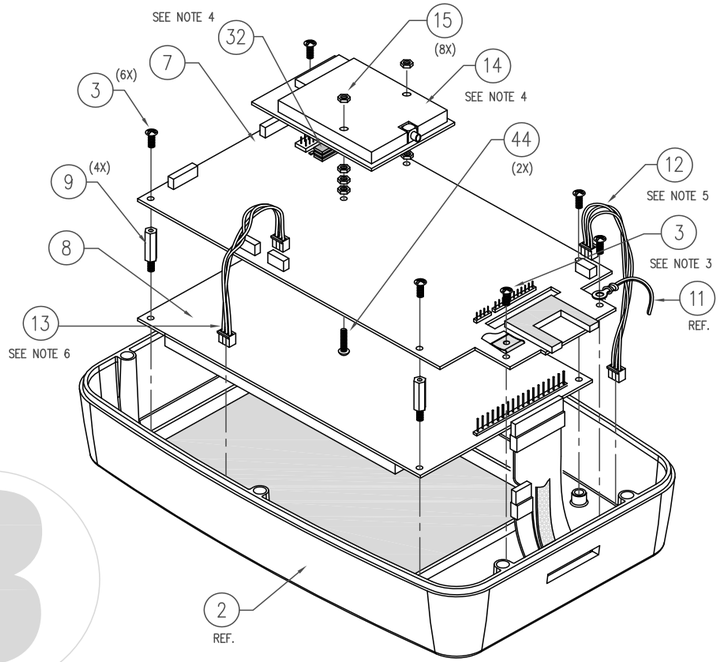


Figure 5-55. IVPAB015 (85B015) 2.4 GHz Radio Interface Schematic







1

2

3

ASSEMBLY NOTES (THIS SHEET)

1. USE LOCTITE #425 "ASSURE" ON ALL THREADS.

2. WHEN INSTALLING THE MEMBRANE KEYPAD (ITEM 1), FEED THE SWITCH TAIL CONNECTORS & GROUNDING TAILS THRU SLOT AT BOTTOM OF THE KEYPAD RECESS ON FRONT HOUSING (ITEM 2) ASSURING A SNUG FIT AGAINST THE LOWER EDGE OF THE RECESS AND MEMBRANE KEYPAD.

3. FEED CONNECTOR TAILS AND GROUNDING TAILS THRU SLOT IN PROCESSOR PCBA (ITEM 7) WHILE PLACING BOARD IN UNIT. PLUG 11 PIN SWITCH TAIL INTO J6 CONNECTOR ON PROCESSOR PCBA. PLUG 4 PIN SWITCH TAIL INTO J9 ON PROCESSOR PCBA. FOLD OVER GROUNDING TAILS FROM KEYPAD AND PLACE CONDUCTIVE SURFACES OF EACH AGAINST EACH OTHER. ATTACH GROUNDING TABS TOGETHER WITH #4–40 SCREW (ITEM 3) AND ATTACH TO PROCESSOR PCB MOUNTING HOLE AS SHOWN FOR GND CONNECTION.

4. TO ATTACH CIRRONET RADIO MODULE (ITEM 14) TO PROCESSOR PCBA (ITEM 7) STACK 3 1/4 X 1" STRIPS OF FOAM TAPE (ITEM 32) BELOW RESISTOR R95 AS SHOWN. ALIGN RADIO OVER CONNECTOR J2 AND SECURE TO PROCESSOR PCBA USING 2 #2–56 SCREWS, AND NUTS (ITEMS 15 AND 47) AS SHOWN.

5. PLUG POWER LED CABLE (ITEM 12) INTO POWER LED PCBA (ITEM 6) AND INTO J8 CONNECTOR ON PROCESSOR PCBA (ITEM 7) PRIOR TO PROCESSOR PCBA MOUNTING. ROUTE CABLES AROUND PCBA SO AS TO NOT PINCH OR DAMAGE CABLE DURING INSTALLATION.

6. PLUG ALARM LED CABLE (ITEM 13) INTO PROCESSOR PCBA (ITEM 7) AT CONNECTOR J4 AND ROUTE TO CONNECTOR ON ALARM LED PCBA (ITEM 4).

*AF ASSEMBLY LABEL CHART (LANGUAGE VERSIONS)
USE IRM BOM'S FOR EACH AF ASSM NUMBER

LANGUAGE	AF ASSM PN	ITEM 43
ENGLISH	AF3865	LB2051
GERMAN	AF3865G	LB2051A
FRENCH	AF3865F	LB2051A
JAPANESE	AF3865J	LB2051A
ITALIAN	AF3865I	LB2051A
SPANISH	AF3865S	LB2051A
SWEDISH	AF3865SW	LB2051A
CHINESE	AF3865CH	LB2051A

ITEM	PART NO.	QTY.	DESCRIPTION
45	NW02	2	WSHR, FLT,.250X.140X.032–NY,KEYSTN 3122
44	NS03	2	SCREW, #2–56 X 5/8LG. PHMS, XR–SS316
15	N000	8	NUT, #2–56 HEX, 02CMSNSS
14	HE12	1	RADIO MODULE, WT2450, CIRRONET
13	AC02	1	CABLE, ALARM LED, 3850, 3 PIN
12	AC01	1	CABLE, POWER LED, 3850, 3 PIN
11	AC29	1	CABLE, GND TAB, REMOTE DISPLAY,3855
10	NS12	2	SCREW, #4–40 X 1/4LG, PHMS, XR–SS316
9	HM20	4	STANDOFF, M/F, #4–40 X .44LG.–SS316 (BR6979–0.437–34)
8	AS114	1	SUB–ASSM, LCD DISPLAY PCBA
7	IVPAB013	1	PCBA, PROCESSOR, REMOTE DISPLAY (REV. H OR HIGHER)
6	IVPAB012	1	PCBA, POWER INDICATOR
5	IVP1079	1	ALARM LIGHTPIPE, REMOTE, POLYCARBONATE
4	IVPAB004	1	PCBA, ALARM LED
3	NS11	9	SCREW, #4–40 X 3/16LG. PHMS, XR–SS316
2	IVP1077	1	FRONT HOUSING, REMOTE DISPLAY, ABS
1	IVP1091	1	MEMBRANE KEYPAD, 10 KEY 3860/3865

Rev.	Description	Date
C	ECN 000478	30APR13
B	ECN 000374	31MAR11
A	ECN 000227	04SEP08

Revision History

Tolerances unless otherwise noted on dwg.: XX = ± .02, XXX = ± .005, ∠ = ± 2°

Iradimed Corporation

Drawn: JRN Date: 04SEP08
Eng.: RES Date: 30APR13
Q.A.: FXC Date: 30APR13
M.A.: FXC Date: 30APR13
Mfg.: TMF Date: 30APR13

Title: ASSEMBLY, 3865, MR RADIO REMOTE, 10 KEY
Size: D
Part/Dwg. No: AF3865
Rev: C
Do NOT scale this drawing !
Third Angle Projection
Cad. Scale: NA
Sheet 1 of 4

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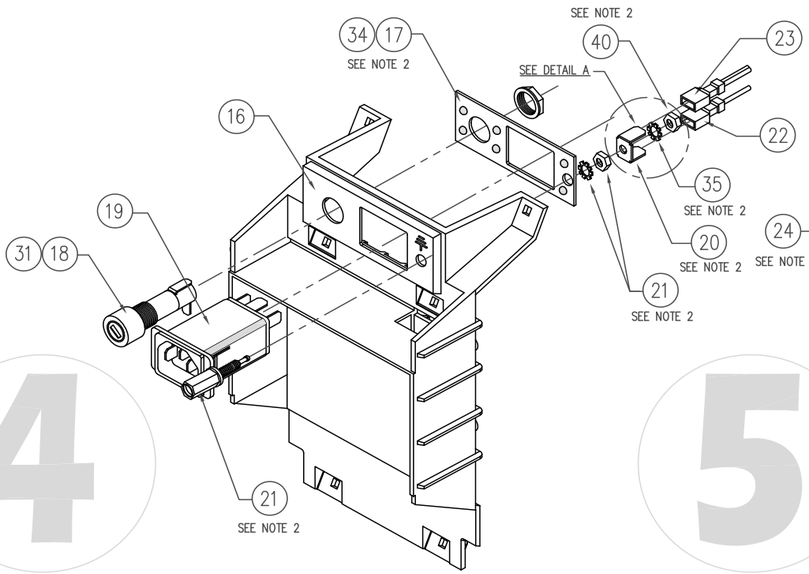
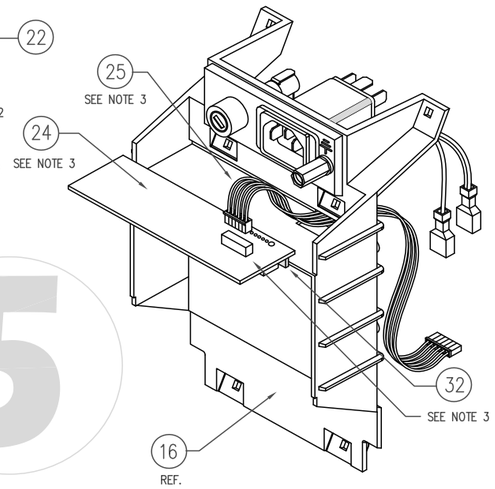
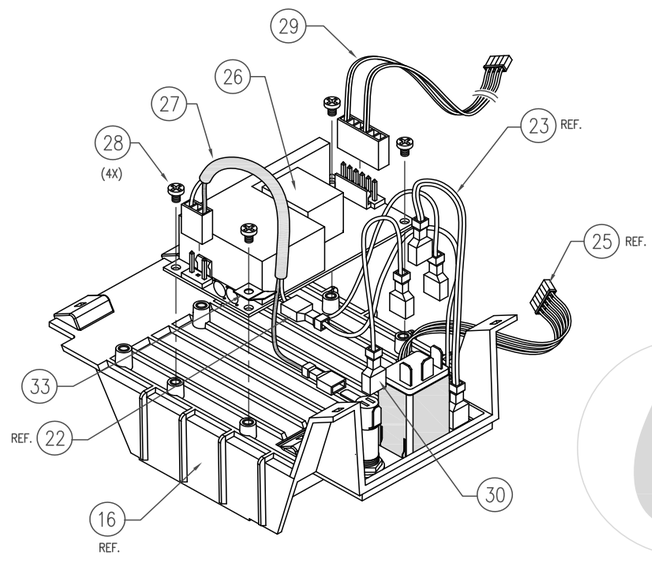
LF21 Rev. A

Figure 5-56. 3865 Remote Display/Charger Assembly Page 1 of 4





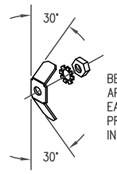


ASSEMBLY NOTES (THIS SHEET)

1. USE LOCTITE #425 "ASSURE" ON ALL THREADS.

2. APPLY 6 GLUE DOTS (ITEM 34) TO BACK OF POWER PLATE (ITEM 17) IN AREAS SHOWN PRIOR TO INSTALLATION INTO POWER BRACKET (ITEM 16). ASSEMBLE FUSE HOLDER (ITEM 18) AS SHOWN SECURING WITH CAPTIVE NUT PROVIDED. ASSEMBLE BINDING POST (ITEM 21) THRU POWER BARACKET AND POWER PLATE AND SECURE WITH LOCK WASHER AND #8 X 32 NUT PROVIDED WITH POST. INSTALL DUAL GROUNDING LUG (ITEM 20) WITH #8 LOCK WASHER (ITEM 35) OVER THREADS OF BINDING POST AS SHOWN AND SECURE WITH #8 X 32 NUT (ITEM 40). SEE DETAIL A BELOW FOR BENDING INSTRUCTIONS OF DUAL GROUNDING LUG PRIOR TO INSTALLATION. ATTACH CABLES (ITEM 22 AND 23) AS SHOWN. FINALLY INSTALL AC POWER CONNECTOR (ITEM 19) THRU BRACKET AND PLATE ENSURING SNUG FIT.

3. FEED BATTERY CABLE (ITEM 25) THRU SLOT IN POWER BRACKET AS SHOWN LEAVING ONLY ENOUGH LENGTH TO PLUG INTO BATTERY PCBA (ITEM 24). PRIOR TO INSTALLATION, CLIP PINS AT CONNECTOR P2 FLUSH TO PCB ON FRONT SIDE TO ENSURE FLUSH FIT AGAINST PLASTIC OF POWER BRACKET. CUT A PIECE OF FOAM TAPE (ITEM 32) THE SIZE OF CONNECTOR P1 BASE AND APPLY TO BOTTOM OF BATTERY CONNECTOR. POSITION BATTERY PCBA INTO FLAT AREA PROVIDED ENSURING CONNECTOR IS LOCATED THRU SLOT IN POWER BRACKET AND PCBA SITS FLUSH AGAINST THE BRACKET WALL. ONCE PCBA IS SEATED INTO BRACKET SECURELY PULL ANY EXCESS BATTERY CABLE THRU SLOT MAKING SURE CABLE IS FLAT AND NONE OF THE WIRES ARE PINCHED.



BEND LUGS OUT TO APPROXIMATELY 30° EACH SIDE AS SHOWN PRIOR TO INSTALLATION.

DETAIL A

ITEM	PART NO.	QTY.	DESCRIPTION
40	N003	1	NUT, HEX, #8-32 REG SERIES-SS 316
35	NW05	1	WSHR, LCK, #8 INT. TOOTH-SS316
34	M020	6	GLUE DOTS, MINI 3/16", 300 PER CRTN
33	PA40	1	GROUND LUG, #6 X .250 X .032, AMP #42822-4
32	HM22	1.5	TAPE, FOAM, SINGLE-SIDED, .06 THK. X 1.00 WD., 3M #4016-1
31	HE14	1	FUSE, 1A, BK/3AGC.1 0312001.H XP
30	AC15	1	CABLE, AC FILTER TO FUSE, 1120, 1 PIN
29	AC19	1	CABLE, POWER, 3855, 2/4 PIN
28	NS21	10	SCREW, #6-32 X 3/16LG. PHMS, XR-SS316
27	AC33	1	CABLE, AC TO POWER SUPPLY, 3855, 2 PIN
26	IVP2102	1	XPIQ 40 WATT, 18VDC MEDICAL SUPPLY ECM40
25	AC18	1	CABLE, BATTERY, 3855, 6 PIN
24	IVPAB006	1	PCBA, BATTERY INTERCONNECT
23	AC21	1	CABLE, AC FILTER TO GND, 1120, 1 PIN
22	AC30	1	CABLE, GND TO GND, REMOTE DISPLAY, 3855
21	PA51	1	BNDG. POST, #8-32/BN. JACK, HH SMITH 137
20	PA50	1	GND. LUG, DUAL #8 X .25, AMP 42802-1
19	HE05	1	CONN., AC PWR. FILTER, SCHURTER 693-5110
18	HE06	1	HOLDER, FUSE, LITTLEFUSE H3453HS1
17	IVP1090	1	POWER PLATE, REMOTE DISPLAY, 3855
16	IVP1080	1	POWER BRKT, REMOTE DISPLAY, 3855, 94V0

Tolerances unless otherwise noted on dwg.: XX = ± .02, .XXX = ± .010, ∠ = ± 2°

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Drawn: JRN Date: 04SEP08
Eng.: RES Date: 30APR13
Q.A.: FXC Date: 30APR13
M.A.: FXC Date: 30APR13
Mfg.: TWF Date: 30APR13

Title: ASSEMBLY, 3865, MR RADIO REMOTE, 10 KEY
Size: D
Part/Dwg. No: AF3865
Rev: C

SEE SHEET 1
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Third Angle Projection
Cad. Scale: NA
Sheet 2 of 4

Rev.	Description	Date
Revision History		

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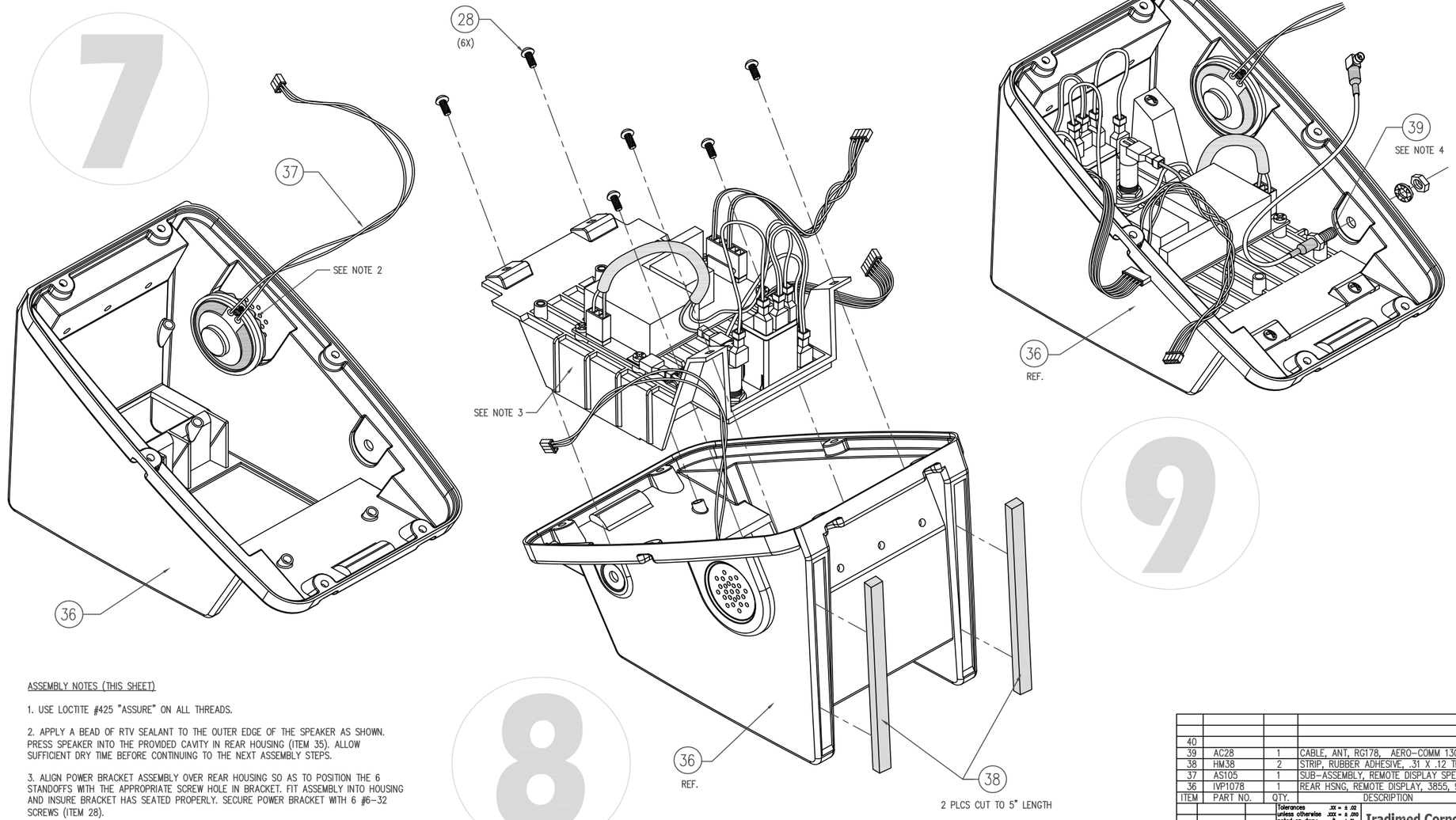
LF21 Rev. A

Figure 5-57. 3865 Remote Display/Charger Assembly Page 2 of 4



ASSEMBLY NOTES (THIS SHEET)

1. USE LOCTITE #425 "ASSURE" ON ALL THREADS.

2. APPLY A BEAD OF RTV SEALANT TO THE OUTER EDGE OF THE SPEAKER AS SHOWN. PRESS SPEAKER INTO THE PROVIDED CAVITY IN REAR HOUSING (ITEM 35). ALLOW SUFFICIENT DRY TIME BEFORE CONTINUING TO THE NEXT ASSEMBLY STEPS.

3. ALIGN POWER BRACKET ASSEMBLY OVER REAR HOUSING SO AS TO POSITION THE 6 STANDOFFS WITH THE APPROPRIATE SCREW HOLE IN BRACKET. FIT ASSEMBLY INTO HOUSING AND INSURE BRACKET HAS SEATED PROPERLY. SECURE POWER BRACKET WITH 6 #6-32 SCREWS (ITEM 28).

4. ALIGN ANTENNA CABLE (ITEM 38) THROUGH HOLE IN REAR HOUSING (ITEM 35) AS SHOWN AND SECURE WITH LOCK WASHER AND NUT PROVIDED.

ITEM	PART NO.	QTY.	DESCRIPTION
40			
39	AC28	1	CABLE, ANT, RG178, AERO-COMM 1300-00023
38	HM38	2	STRIP, RUBBER ADHESIVE, .31 X .12 THK
37	AS105	1	SUB-ASSEMBLY, REMOTE DISPLAY SPEAKER
36	IVP1078	1	REAR HSNG, REMOTE DISPLAY, 3855, 94V0

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

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Drawn: JRN Date: 04SEP08
Eng.: RES Date: 30APR13
Q.A.: FXC Date: 30APR13
R.A.: FXC Date: 30APR13
Mfg.: TWF Date: 30APR13

Title: ASSEMBLY, 3865, MR RADIO REMOTE, 10 KEY

Size: D

Part/Dwg. No: AF3865

Rev: C

Do NOT scale this drawing !

Third Angle Projection

Cad. Scale: NA

Sheet 3 of 4

SEE SHEET 1

Rev.	Description	Date
Revision History		

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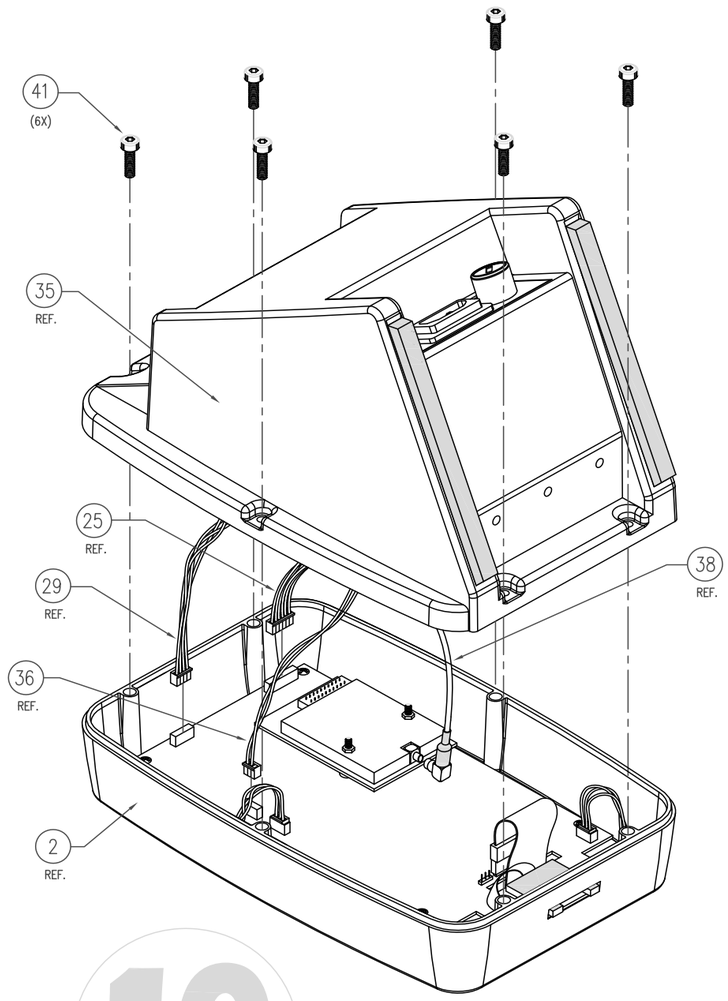
LF21 Rev. A

Figure 5-58. 3865 Remote Display/Charger Assembly Page 3 of 4



SEE ASSEMBLY NOTE 2 THIS PAGE

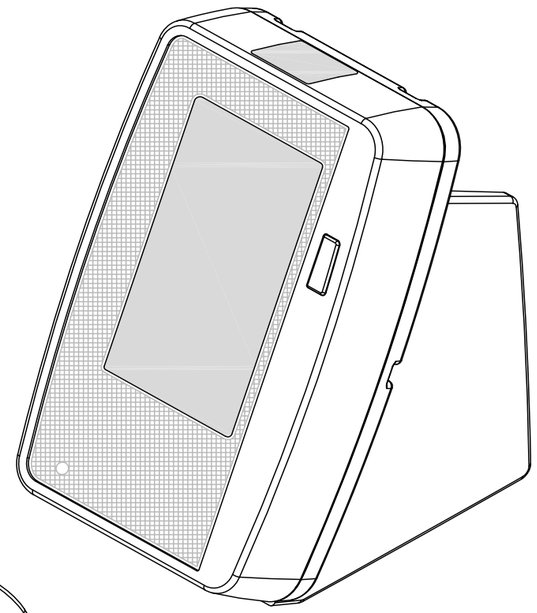
ASSEMBLY NOTES (THIS SHEET)

1. USE LOCTITE #425 "ASSURE" ON ALL THREADS.

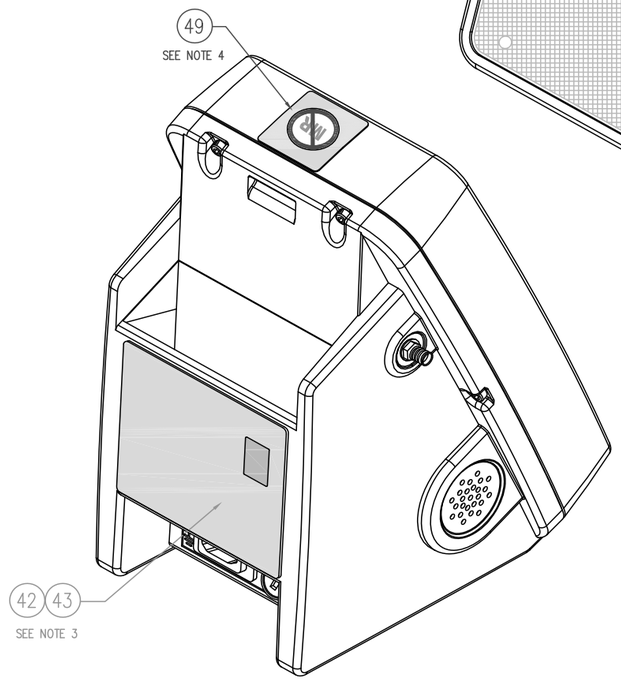
2. ASSEMBLE REAR HOUSING ASSEMBLY (REF. ITEM 35) TO FRONT HOUSING ASSEMBLY (REF. ITEM 2) BY FIRST ATTACHING RELATED CABLES FROM REAR ASSEMBLY TO CORRESPONDING CONNECTORS ON PROCESSOR PCBA. ATTACH BATTERY CABLE (REF. ITEM 25) TO PROCESSOR CONNECTOR P1. ATTACH POWER CABLE (REF. ITEM 29) TO PROCESSOR CONNECTOR J5. ATTACH SPEAKER ASSEMBLY CABLE (REF. ITEM 36) TO PROCESSOR CONNECTOR J3. ATTACH ANTENNA CABLE (REF. ITEM 38) TO CONNECTOR ON CIRRONET RADIO MODULE MOUNTED ON PROCESSOR PCBA. ENSURE ALL CABLES ARE SEATED PROPERLY AND ARRANGED TO NOT BE PINCHED AS REAR ASSEMBLY IS LOWERED ONTO FRONT HOUSING. ATTACH REAR HOUSING TO FRONT USING 6 #8-32 SCREWS (ITEM 41) AS SHOWN.

3. PRE-PRINT REF/SERIAL (LB2016) USING WASP WPL305 PRINTER, AND ATTACH TO BACK OF SERIAL / INSTRUCTION LABEL (ITEM 43) WITH NUMBERS SHOWING THRU CLEAR ADHESIVE WINDOW OF LABEL.

4. ATTACH MR NON-COMPATIBILITY LABEL (ITEM 49) TO TOP OF ASSEMBLY AS SHOWN.



REFERENCE VIEW OF ASSEMBLED AF3855



ITEM	PART NO.	QTY	DESCRIPTION
49	LB2022	1	LABEL, MR NON-COMPATIBLE SYMBOL 3855
43	LB2051*	1	LABEL, REMOTE INSTRUCTION/SERIAL
42	LB2016	1	LABEL, 1.5 X 1.0, ROLL, 4-PACK
41	NS32	6	SCREW,#8-32 X 1/2LG. PHMS, XR-SS316

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

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Drawn: JRN Date: 04SEP08
Eng.: RES Date: 30APR13
Q.A.: FXC Date: 30APR13
R.A.: FXC Date: 30APR13
Mfg.: TWF Date: 30APR13

Do NOT scale this drawing !

Title: ASSEMBLY, 3865, MR RADIO REMOTE, 10 KEY
Size: D
Part/Dwg. No: AF3865
Rev: C
Cod. Scale: NA
Sheet 4 of 4

SEE SHEET 1

Rev. | Description | Date — Revision History

Third Angle Projection

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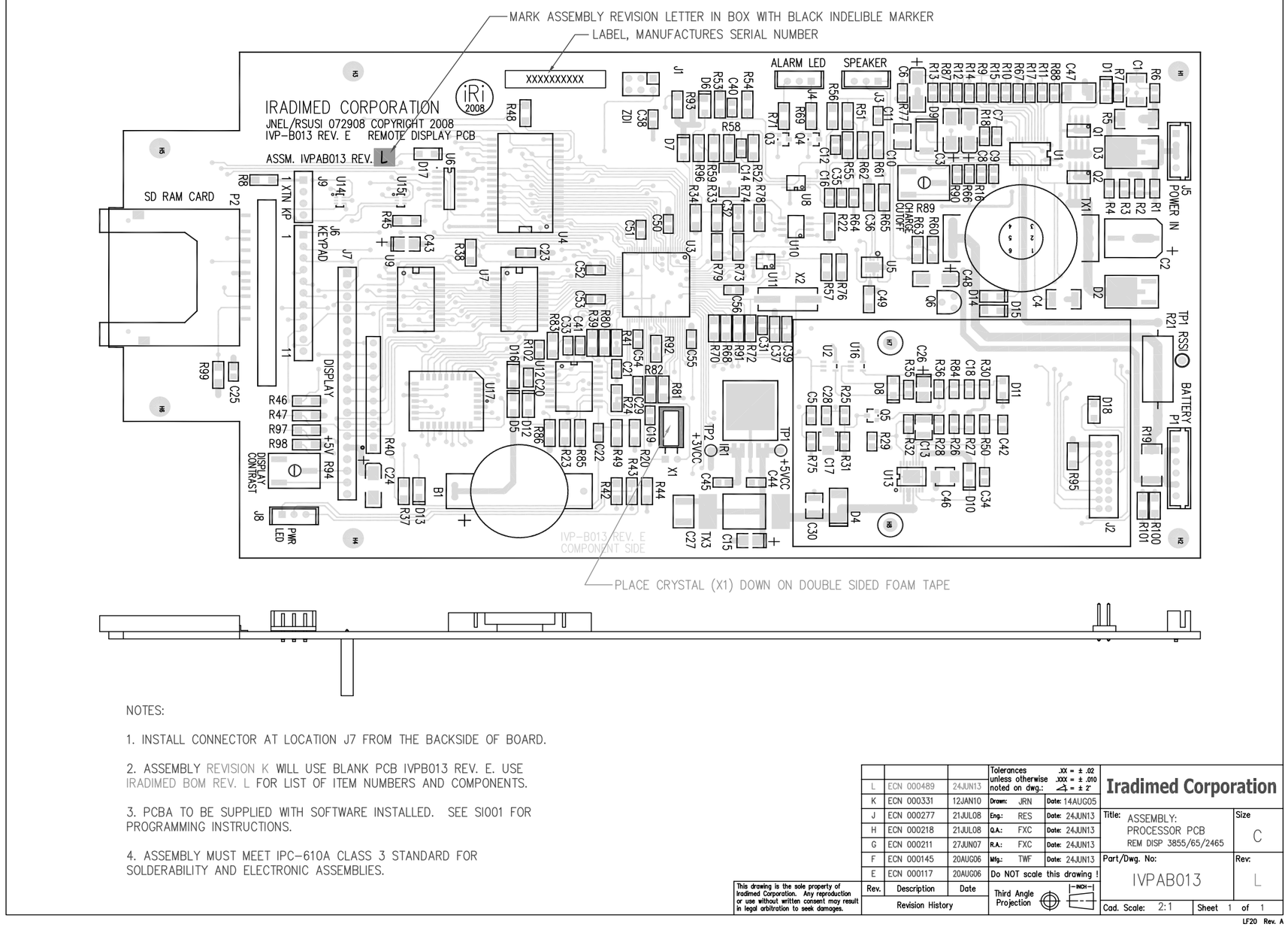
LF21 Rev. A

Figure 5-59. 3865 Remote Display/Charger Assembly Page 4 of 4



NOTES:

1. INSTALL CONNECTOR AT LOCATION J7 FROM THE BACKSIDE OF BOARD.

2. ASSEMBLY REVISION K WILL USE BLANK PCB IVPB013 REV. E. USE IRADIMED BOM REV. L FOR LIST OF ITEM NUMBERS AND COMPONENTS.

3. PCBA TO BE SUPPLIED WITH SOFTWARE INSTALLED. SEE SI001 FOR PROGRAMMING INSTRUCTIONS.

4. ASSEMBLY MUST MEET IPC-610A CLASS 3 STANDARD FOR SOLDERABILITY AND ELECTRONIC ASSEMBLIES.

Rev.	Description	Date
L	ECN 000489	24JUN13
K	ECN 000331	12JAN10
J	ECN 000277	21JUL08
H	ECN 000218	21JUL08
G	ECN 000211	27JUN07
F	ECN 000145	20AUG06
E	ECN 000117	20AUG06

Revision History

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn: JRN Date: 14AUG05
Eng.: RES Date: 24JUN13
Q.A.: FXC Date: 24JUN13
R.A.: FXC Date: 24JUN13
Mfg.: TWF Date: 24JUN13

Do NOT scale this drawing !

Third Angle Projection — INCH

Iradimed Corporation

Title: ASSEMBLY: PROCESSOR PCB REM DISP 3855/65/2465
Size: C
Part/Dwg. No: IVPAB013
Rev: L
Cad. Scale: 2:1
Sheet 1 of 1

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LF20 Rev. A

Figure 5-60. IVPAB013 Remote Display Processor PCBA

REVISION	DESCRIPTION	DATE	DRAWN BY
A	CHANGES FOR INITIAL PILOT PRODUCTION RELEASE	07NOV05	JNELSON
B	CHANGES PER ECN 000037	31JAN06	JNELSON
C	CHANGES PER ECN 000078	19APR06	JNELSON
D	CHANGES PER ECN 000117	20AUG06	JNELSON
F	CHANGES PER ECN 000145	25OCT06	JNELSON
G	CHANGES PER ECN 000211	27JUN07	JNELSON

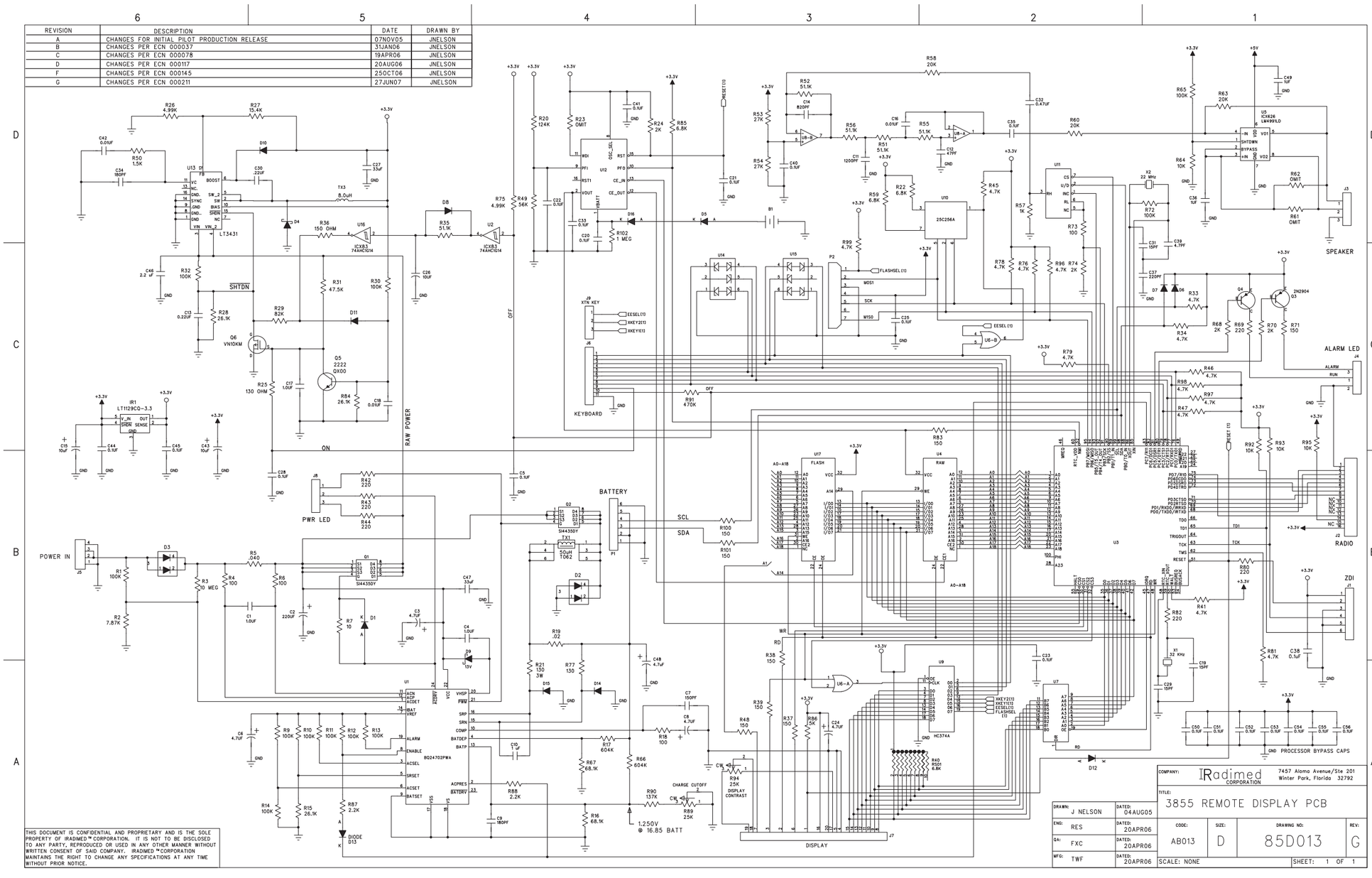
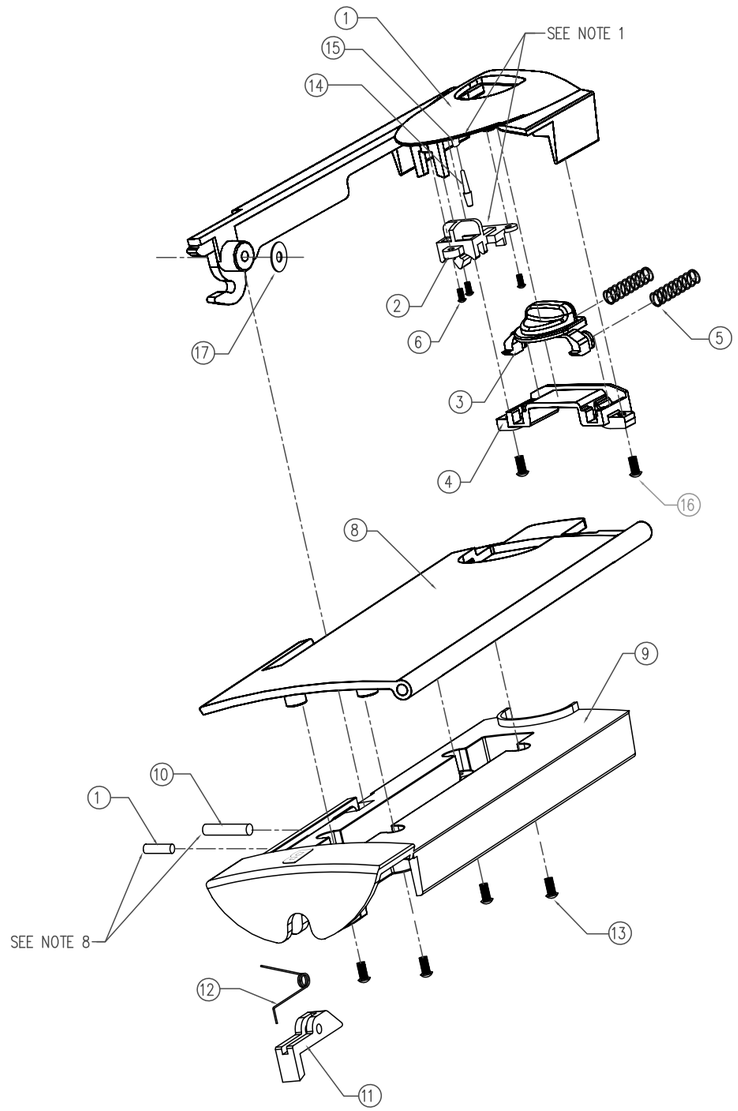


Figure 5-61. IVPAB013 (85D013) Remote Display Processor Schematic



ASSEMBLY NOTES:

1. USING 3 #2–56 X 3/16 PAN HD. SCREWS (ITEM 6), ATTACH CLAMP CLIP (ITEM 2) TO THE BACK OF CLAMP HANDLE (ITEM 1) AS SHOWN. INSPECT AND REMOVE ANY SHARP EDGES FROM HANDLE PARABOLA USING FINE GRIT SANDPAPER. DO NOT OVER–TIGHTEN SCREWS.

2. APPLY A COUPLE DROPS OF LOCTITE 380 (BLACK MAX (ITEM 15)) INTO HOLE ON UNDERSIDE OF CLAMP HANDLE (ITEM 1). QUICKLY PRESS RUBBER PIN (ITEM 14) INTO HOLE AS SHOWN AND AND HOLD FOR 2 SECONDS. IMMEDIATELY WIPE AWAY ANY EXCESS ADHESIVE AROUND BASE OF RUBBER PIN.

3. PLACE CLAMP LATCH SLIDER (ITEM 3) ONTO CLAMP LATCH COVER (ITEM 4) ALONG WITH 2 COMPRESSION SPRINGS (ITEM 5) (COMPRESS AND PLACE INTO COVER HOLDING SLIDER IN PLACE). PLACE THIS ASSEMBLY IN AREA PROVIDED IN BACKSIDE OF CLAMP (ASSURE BUTTON SIDE OF SLIDER IS PROTRUDING THRU CLAMP) AND SECURE WITH 2 SCREWS (ITEM 16).

4. ALIGN CLAMP HANDLE (ITEM 1) AND WAVE WASHER (ITEM 17) INTO DOOR PRESSURE PLATE (ITEM 9) BY PLACING ROUNDED BEARING END OF CLAMP HANDLE AND WASHER INTO THE U–SHAPED CUTOUT IN THE FACE OF THE CLEAR PRESSURE PLATE. PRESS FIT THE BRASS CLAMP PIN (ITEM 7) THRU FROM THE OUTSIDE OF THE PLASTIC PRESSURE PLATE, THRU THE HOLE OF THE CLAMP HANDLE, THRU WASHER AND THEN THRU THE OTHER SIDE OF THE PLASTIC UNTIL PIN STOPS AGAINST INSIDE WALL OF PRESSURE PLATE.

5. NEXT PLACE THE LATCH PAW TORSION SPRING (ITEM 12) INTO THE DOOR LATCH PAW (ITEM 11) AS SHOWN ALIGNING THE HOLES OF THE LATCH PAW WITH THAT OF THE SPRING. SLIDE LATCH PAW AND SPRING (COMPRESSING SPRING WITH FINGER) FROM BACKSIDE OF PRESSURE PLATE (ITEM 9) UNTIL HOLES LINE UP WITH THE SIDE WALL. PRESS FIT BRASS PIN (ITEM 10) THRU OUTSIDE WALL GUIDING IT THRU THE LATCH PAW AND TORSION SPRING UNTIL SEATING IT FLUSH AGAINST THE PRESSURE PLATE INSIDE WALL.

6. ONCE THE CLAMP HANDLE AND PAW ARE INSTALLED IN THE PRESSURE PLATE, ROTATE CLAMP OUTWARDS AND UP TO APPROXIMATELY A 45° ANGLE. THE CLAMP HANDLE SHOULD LATCH AGAINST THE PAW AND BE HELD IN PLACE. ALIGN DOOR FRONT (ITEM 8) OVER PRESSURE PLATE AS SHOWN ALIGNING THE 4 BOSSES WITH THIER APPROPRIATE CHANNELS IN THE PRESSURE PLATE. USING 4 #4–40 X 1/4LG. SCREWS (ITEM 13) ATTACH THE DOOR AND PLATE TOGETHER.

7. ONCE DOOR IS IN PLACE, PRESS FOOT OF LATCH PAW FROM BOTTOM SIDE ALLOWING THE CLAMP HANDLE TO ROTATE BACK TO ITS CLOSED AND LOCKED POSITION. INSURE THAT ALL ASSEMBLIES HAVE CLEARANCE AS THE HANDLE ROTATES INTO PLACE.

8. ONCE ASSEMBLY IS FINISHED, APPLY A SMALL AMOUNT OF 2 PART EPOXY TO THE ENDS OF BRASS PINS (ITEM 7 AND 10) TO PREVENT FROM PUSHING OUT DURING USE.

ITEM	PART NO.	QTY.	DESCRIPTION
17	NW06	1	WSHR, WAVE, 18–8SS, .208 ID X .385 OD
16	NS13	2	SCR, #4–40 X 5/16LG. PHMS, SS (316)
15	M044	0.01	LOCKTITE 380, INSTANT ADHESIVE, BLACK
14	IVP1099	1	DOOR CLAMP PIN, 3850/3851
13	NS12	4	SCREW, #4–40 X 1/4LG. PHMS, XR–SS316
12	HM16	1	SPRING, TORSION, DOOR LATCH PAW
11	IVP1038	1	PAW, DOOR LATCH
10	HM15	1	PIN, DOOR LATCH PAW
9	IVP1072T	1	PRESSURE PLATE, DOOR, 3851 TAPER
8	IVP1073APA	1	DOOR, FRONT, LATCH, PAINTED, 3861 SERIES
7	HM14	1	PIN, CLAMP HANDLE
6	NS01	3	SCREW, #2–56 X 3/16LG. PHMS, XR–SS316
5	HM17	2	SPRING, SPRING ARM COMPRESSION
4	IVP1095	1	CLAMP LATCH, COVER, 3850–3851
3	IVP1094	1	CLAMP LATCH, SLIDER, 3850–3851
2	IVP1068	1	CLAMP CLIP, DOOR
1	IVP1074A	1	CLAMP HANDLE, DOOR, 3851, LATCHED

Rev.	Description	Date
C	ECN 000371	26JAN11
B	ECN 000346	10MAY10
A	ECN 000227	13NOV07

Revision History

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn: JRN Date: 13NOV07
Eng.: RES Date: 26JAN11
Q.A.: FXC Date: 26JAN11
R.A.: FXC Date: 26JAN11
Mfg.: TWF Date: 26JAN11

Do NOT scale this drawing !

Third Angle Projection — INCH

Iradimed Corporation

Title: SUB–ASSEM, FRONT DOOR, 3861, LATCHING
Size: C
Part/Dwg. No: AS113A
Rev: C
Cad. Scale: NA
Sheet 1 of 1

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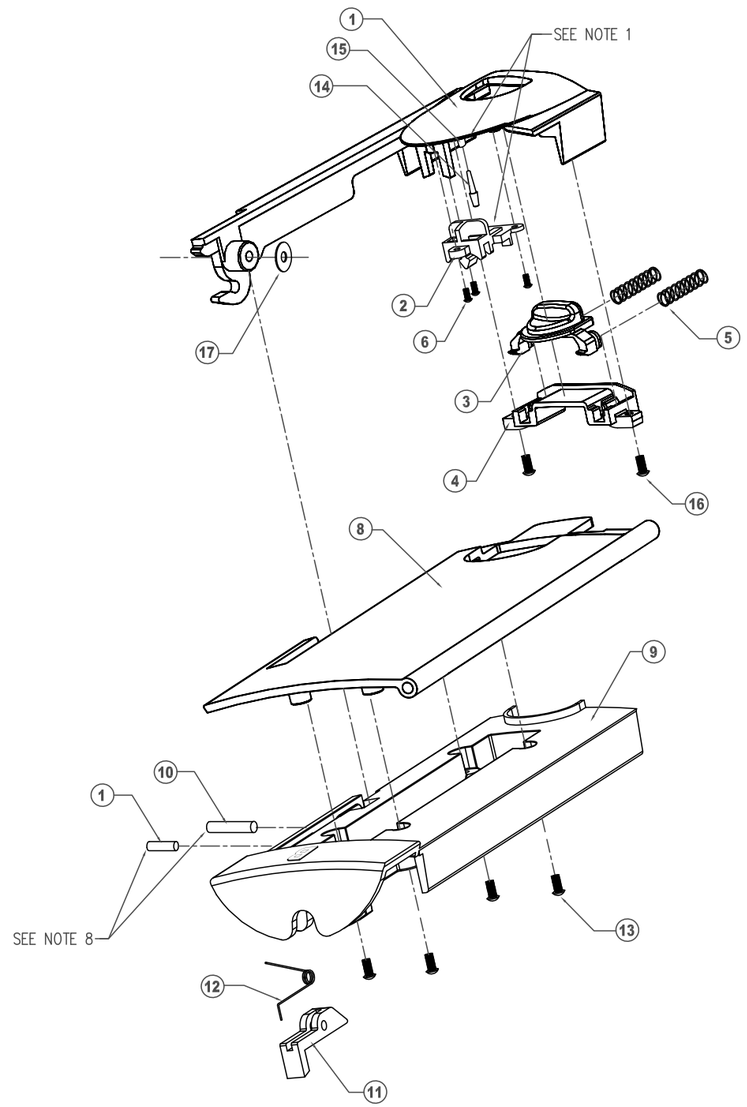
LF20 Rev. A

Figure 5-62. AS113A Sub-Assembly, 3861, Door, Latching



ASSEMBLY NOTES:

1. USING 3 #2–56 X 3/16 PAN HD. SCREWS (ITEM 6), ATTACH CLAMP CLIP (ITEM 2) TO THE BACK OF CLAMP HANDLE (ITEM 1) AS SHOWN. INSPECT AND REMOVE ANY SHARP EDGES FROM HANDLE PARABOLA USING FINE GRIT SANDPAPER. DO NOT OVER–TIGHTEN SCREWS.

2. APPLY A COUPLE DROPS OF LOCTITE 380 (BLACK MAX (ITEM 15)) INTO HOLE ON UNDERSIDE OF CLAMP HANDLE (ITEM 1). QUICKLY PRESS RUBBER PIN (ITEM 14) INTO HOLE AS SHOWN AND AND HOLD FOR 2 SECONDS. IMMEDIATELY WIPE AWAY ANY EXCESS ADHESIVE AROUND BASE OF RUBBER PIN.

3. PLACE CLAMP LATCH SLIDER (ITEM 3) ONTO CLAMP LATCH COVER (ITEM 4) ALONG WITH 2 COMPRESSION SPRINGS (ITEM 5) (COMPRESS AND PLACE INTO COVER HOLDING SLIDER IN PLACE). PLACE THIS ASSEMBLY IN AREA PROVIDED IN BACKSIDE OF CLAMP (ASSURE BUTTON SIDE OF SLIDER IS PROTRUDING THRU CLAMP) AND SECURE WITH 2 SCREWS (ITEM 16).

4. ALIGN CLAMP HANDLE (ITEM 1) AND WAVE WASHER (ITEM 17) INTO DOOR PRESSURE PLATE (ITEM 9) BY PLACING ROUNDED BEARING END OF CLAMP HANDLE AND WASHER INTO THE U–SHAPED CUTOUT IN THE FACE OF THE CLEAR PRESSURE PLATE. PRESS FIT THE BRASS CLAMP PIN (ITEM 7) THRU FROM THE OUTSIDE OF THE PLASTIC PRESSURE PLATE, THRU THE HOLE OF THE CLAMP HANDLE, THRU WASHER AND THEN THRU THE OTHER SIDE OF THE PLASTIC UNTIL PIN STOPS AGAINST INSIDE WALL OF PRESSURE PLATE.

5. NEXT PLACE THE LATCH PAW TORSION SPRING (ITEM 12) INTO THE DOOR LATCH PAW (ITEM 11) AS SHOWN ALIGNING THE HOLES OF THE LATCH PAW WITH THAT OF THE SPRING. SLIDE LATCH PAW AND SPRING (COMPRESSING SPRING WITH FINGER) FROM BACKSIDE OF PRESSURE PLATE (ITEM 9) UNTIL HOLES LINE UP WITH THE SIDE WALL. PRESS FIT BRASS PIN (ITEM 10) THRU OUTSIDE WALL GUIDING IT THRU THE LATCH PAW AND TORSION SPRING UNTIL SEATING IT FLUSH AGAINST THE PRESSURE PLATE INSIDE WALL.

6. ONCE THE CLAMP HANDLE AND PAW ARE INSTALLED IN THE PRESSURE PLATE, ROTATE CLAMP OUTWARDS AND UP TO APPROXIMATELY A 45° ANGLE. THE CLAMP HANDLE SHOULD LATCH AGAINST THE PAW AND BE HELD IN PLACE. ALIGN DOOR FRONT (ITEM 8) OVER PRESSURE PLATE AS SHOWN ALIGNING THE 4 BOSSES WITH THIER APPROPRIATE CHANNELS IN THE PRESSURE PLATE. USING 4 #4–40 X 1/4LG. SCREWS (ITEM 13) ATTACH THE DOOR AND PLATE TOGETHER.

7. ONCE DOOR IS IN PLACE, PRESS FOOT OF LATCH PAW FROM BOTTOM SIDE ALLOWING THE CLAMP HANDLE TO ROTATE BACK TO ITS CLOSED AND LOCKED POSITION. INSURE THAT ALL ASSEMBLIES HAVE CLEARANCE AS THE HANDLE ROTATES INTO PLACE.

8. ONCE ASSEMBLY IS FINISHED, APPLY A SMALL AMOUNT OF 2 PART EPOXY TO THE ENDS OF BRASS PINS (ITEM 7 AND 10) TO PREVENT FROM PUSHING OUT DURING USE.

ITEM	PART NO.	QTY.	DESCRIPTION
17	NW06	1	WSHR, WAVE, 18–8SS, .208 ID X .385 OD
16	NS13	2	SCR, #4–40 X 5/16LG. PHMS, SS (316)
15	M044	0.01	LOCKTITE 380, INSTANT ADHESIVE, BLACK
14	IVP10990P	1	DOOR PIN, OPTIC, 3850/3851
13	NS12	4	SCREW, #4–40 X 1/4LG. PHMS, XR–SS316
12	HM16	1	SPRING, TORSION, DOOR LATCH PAW
11	IVP1038	1	PAW, DOOR LATCH
10	HM15	1	PIN, DOOR LATCH PAW
9	IVP1072T	1	PRESSURE PLATE, DOOR, 3851 TAPER
8	IVP1073APA	1	DOOR, FRONT, LATCH, PAINTED, 3861 SERIES
7	HM14	1	PIN, CLAMP HANDLE
6	NS01	3	SCREW, #2–56 X 3/16LG. PHMS, XR–SS316
5	HM17	2	SPRING, SPRING ARM COMPRESSION
4	IVP1095	1	CLAMP LATCH, COVER, 3850–3851
3	IVP1094	1	CLAMP LATCH, SLIDER, 3850–3851
2	IVP1068	1	CLAMP CLIP, DOOR
1	IVP1074A	1	CLAMP HANDLE, DOOR, 3851, LATCHED

Rev.	Description	Date
B	ECN 000488	18JUN13
A	ECN 000373	14FEB11

Revision History

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn: JRN Date: 14FEB11
Eng.: RES Date: 18JUN13
Q.A.: FXC Date: 18JUN13
R.A.: FXC Date: 18JUN13
Mfg.: TWF Date: 18JUN13

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Third Angle Projection — INCH

Iradimed Corporation

Title: SUB–ASSEM, FRNT DR, 3851/61, LTCH, OPTIC
Size: C
Part/Dwg. No: AS113AOP
Rev: B
Cad. Scale: NA
Sheet 1 of 1

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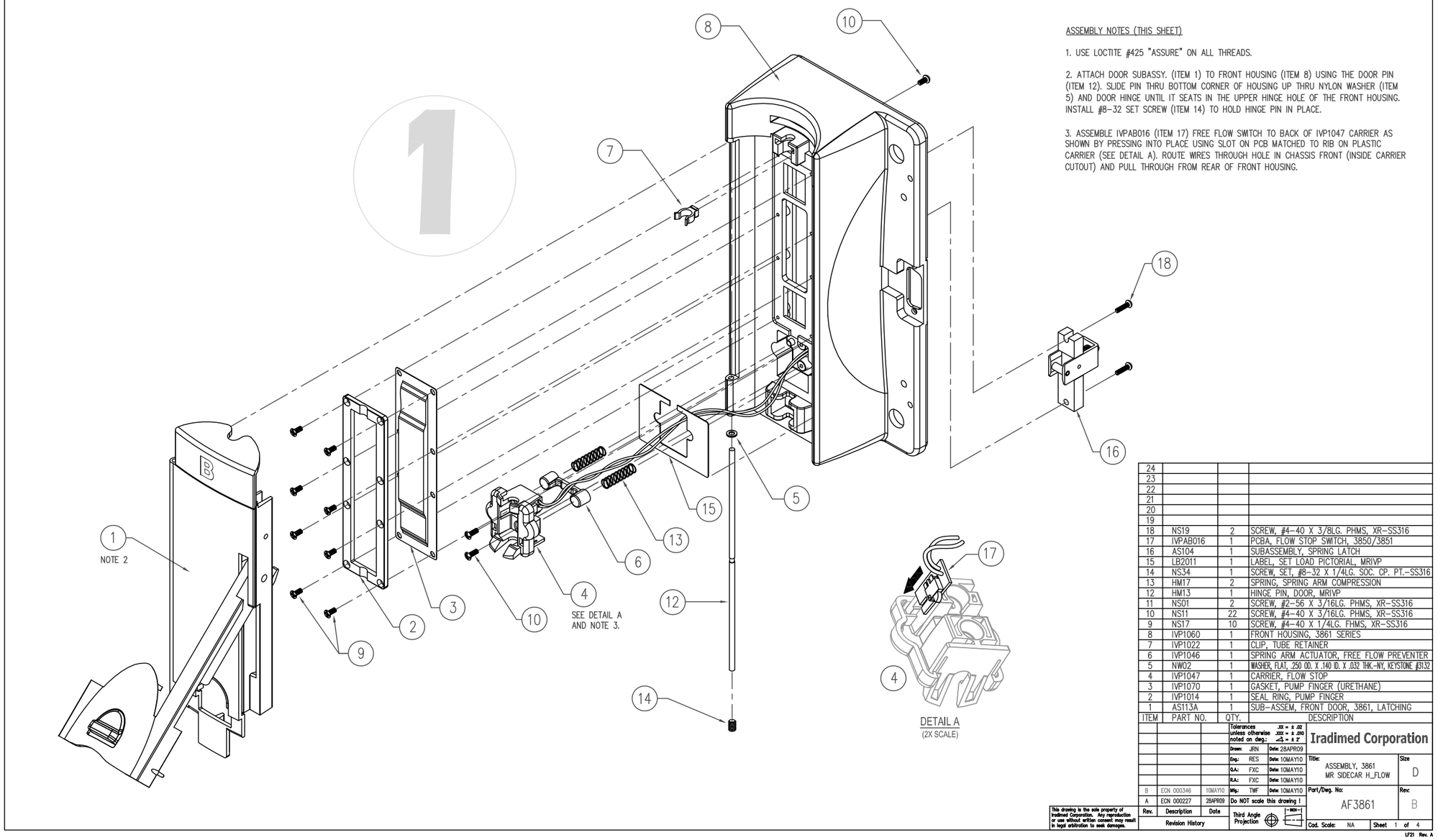
LF20 Rev. A

Figure 5-63. AS113AOP Sub-Assembly, 3861 Door, Latching, Optic*



ASSEMBLY NOTES (THIS SHEET)

1. USE LOCTITE #425 "ASSURE" ON ALL THREADS.

2. ATTACH DOOR SUBASSY. (ITEM 1) TO FRONT HOUSING (ITEM 8) USING THE DOOR PIN (ITEM 12). SLIDE PIN THRU BOTTOM CORNER OF HOUSING UP THRU NYLON WASHER (ITEM 5) AND DOOR HINGE UNTIL IT SEATS IN THE UPPER HINGE HOLE OF THE FRONT HOUSING. INSTALL #8-32 SET SCREW (ITEM 14) TO HOLD HINGE PIN IN PLACE.

3. ASSEMBLE IVPAB016 (ITEM 17) FREE FLOW SWITCH TO BACK OF IVP1047 CARRIER AS SHOWN BY PRESSING INTO PLACE USING SLOT ON PCB MATCHED TO RIB ON PLASTIC CARRIER (SEE DETAIL A). ROUTE WIRES THROUGH HOLE IN CHASSIS FRONT (INSIDE CARRIER CUTOUT) AND PULL THROUGH FROM REAR OF FRONT HOUSING.

ITEM	PART NO.	QTY.	DESCRIPTION
24			
23			
22			
21			
20			
19			
18	NS19	2	SCREW, #4-40 X 3/8LG. PHMS, XR-SS316
17	IVPAB016	1	PCBA, FLOW STOP SWITCH, 3850/3851
16	AS104	1	SUBASSEMBLY, SPRING LATCH
15	LB2011	1	LABEL, SET LOAD PICTORIAL, MRIVP
14	NS34	1	SCREW, SET, #8-32 X 1/4LG. SOC. CP. PT.-SS316
13	HM17	2	SPRING, SPRING ARM COMPRESSION
12	HM13	1	HINGE PIN, DOOR, MRIVP
11	NS01	2	SCREW, #2-56 X 3/16LG. PHMS, XR-SS316
10	NS11	22	SCREW, #4-40 X 3/16LG. PHMS, XR-SS316
9	NS17	10	SCREW, #4-40 X 1/4LG. FHMS, XR-SS316
8	IVP1060	1	FRONT HOUSING, 3861 SERIES
7	IVP1022	1	CLIP, TUBE RETAINER
6	IVP1046	1	SPRING ARM ACTUATOR, FREE FLOW PREVENTER
5	NW02	1	WASHER, FLAT, .250 OD. X .140 ID. X .032 THK.-NY, KEYSTONE #3132
4	IVP1047	1	CARRIER, FLOW STOP
3	IVP1070	1	GASKET, PUMP FINGER (URETHANE)
2	IVP1014	1	SEAL RING, PUMP FINGER
1	AS113A	1	SUB-ASSEM, FRONT DOOR, 3861, LATCHING

Rev.	Description	Date
B	ECN 000346	10MAY10
A	ECN 000227	28APR09

Revision History

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn: JRN Date: 28APR09
Eng.: RES Date: 10MAY10
Q.A.: FXC Date: 10MAY10
R.A.: FXC Date: 10MAY10
Mfg.: TWF Date: 10MAY10

Do NOT scale this drawing !

Third Angle Projection

Iradimed Corporation

Title: ASSEMBLY, 3861 MR SIDECAR H_FLOW

Size: D

Part/Dwg. No: AF3861

Rev: B

Cad. Scale: NA

Sheet 1 of 4

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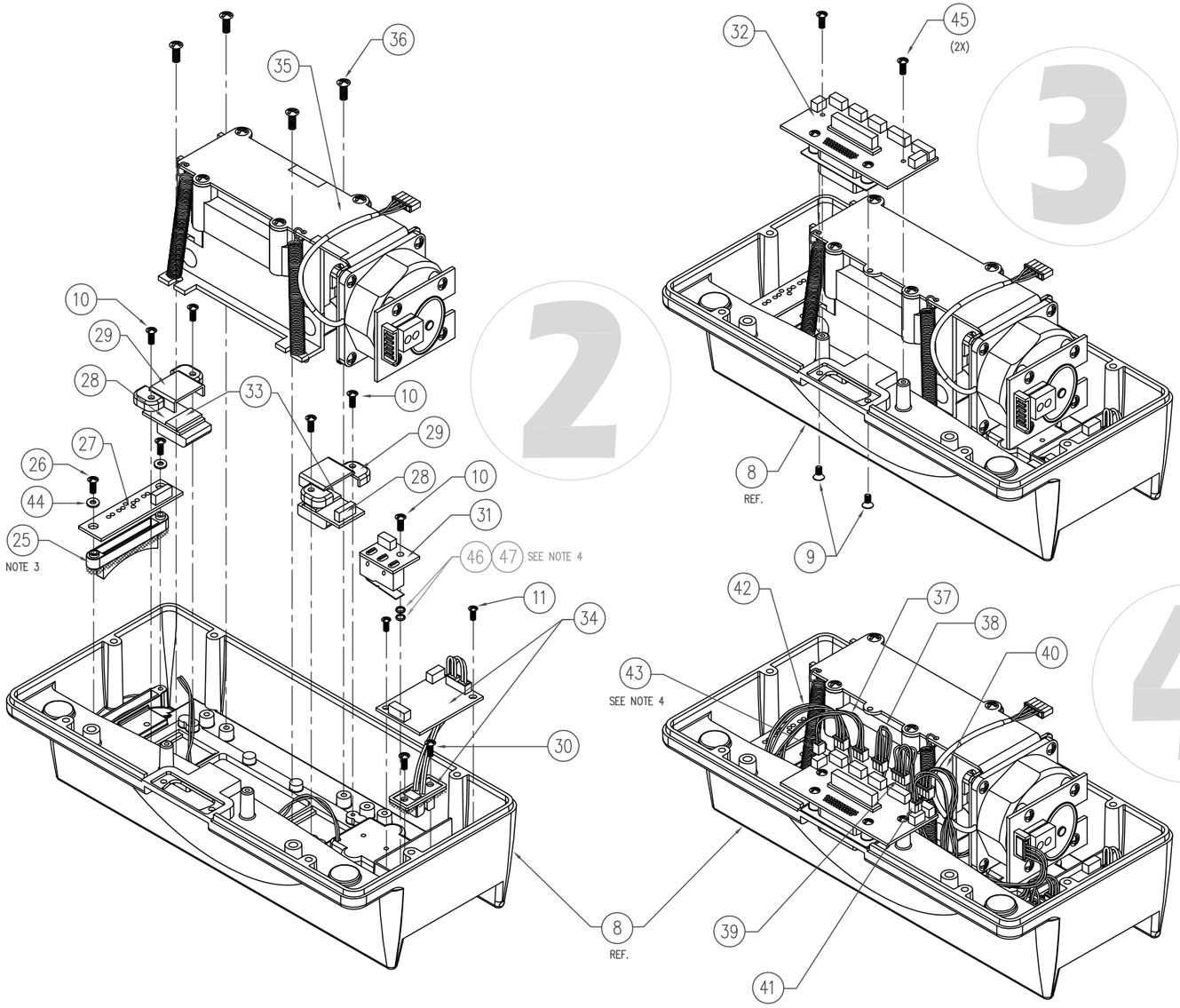
LF21 Rev. A

Figure 5-64. AF3861 SideCar Assembly Sheet 1 of 4



ASSEMBLY NOTES (THIS SHEET)

1. USE LOCTITE #425 "ASSURE" ON ALL THREADS.

2. PLACE AN .03–.06 BEAD OF RTV 732 SILICONE ADHESIVE OR EQUIVALENT COMPLETELY AROUND EDGE OF BUBBLE DETECTOR FLANGE (P/O ITEM 34) BEFORE PLACING DETECTOR INTO FRONT HOUSING (ITEM 8). PLACE DETECTOR INTO FRONT HOUSING BEFORE RTV DRIES.

3. PLACE AN .03–.06 BEAD OF RTV 732 SILICONE ADHESIVE OR EQUIVALENT COMPLETELY AROUND EDGE OF LIGHT PIPE FLANGE (ITEM 25) BEFORE PLACING LIGHT PIPE INTO FRONT HOUSING (ITEM 8). PLACE LIGHT PIPE INTO FRONT HOUSING BEFORE RTV DRIES.

4. WHEN INSTALLING IVPAB008 DOOR SWITCH ASSEMBLY, MEASURE NOMINAL AND OVER–TRAVEL SWITCH POSITIONS USING TOOL TF013A/B OR TF014. IF ASSEMBLY NEEDS TO BE RAISED, USE SHIMS NW08 AND/OR NW09 TO BUILD UP SWITCH ASSEMBLY TO CORRECT HEIGHT REQUIREMENT.

5. PLACE WHITE AND BLACK WIRES FROM IVPAB016 ASSEMBLY (SEE SHEET 1) INTO 2 PIN HOUSING (ITEM 43) AS SHOWN AND PLUG INTO CONNECTOR HOUSING AT LOCATION J7 ON IVPAB010 (ITEM 32).

ITEM	PART NO.	QTY.	DESCRIPTION
47	NW09	1	WSHR, SHIM, 0.125 X 0.187 X 0.024, SS (300)
46	NW08	1	WSHR, SHIM, 0.125 X 0.187 X 0.012, SS (300)
45	NS13	2	SCREW, #4–40 X 5/16LG. PHMS, XR–SS316
44	NW02	2	WSHR, FLT,.250X.140X.032–NY,KEYSTN 3122
43	PA45	1	CONN. 2P HSG, SR, JST EHR–2
42	AC27	1	CABLE, ALARM, 3851, 3 PIN
41	AC26	1	CABLE, DOOR SWITCH, 3851, 2 PIN
40	AC25	1	CABLE, BUBBLE DET., 3851, 4 PIN
39	AC24	1	CABLE, ENCODER, 3851, 4 PIN
38	AC23	1	CABLE, PRESS. SENS. 2 (BTM), 3851, 3 PIN
37	AC22	1	CABLE, PRESS. SENS. 1 (TOP), 3851, 3 PIN
36	NS21	4	SCREW, #6–32 X 1/4 LG. PHMS, XR–SS316
35	AS100	1	ASSY., BLOCK PUMP
34	HE09	1	ZEVEX US BUBBLE DET.,Z12031 SENSOR, Z1116
33	HM22	0.5	TAPE, FOAM, SINGLE–SIDED, .06 THK. X 1.00 WD., 3M #4016–1
32	IVPAB010	1	PCBA, SIDECAR I/O (SIDE)
31	IVPAB008	1	PCBA, DOOR SWITCH
30	NS18	2	SCREW, #4–40 X 1/4LG. PHMS–NY
29	IVP1019	2	CAP, SENSOR
28	IVPAB007	2	PCBA, PRESSURE SENSOR
27	IVPAB004	1	PCBA, ALARM LED
26	NS14	2	SCREW, #4–40 X 1/2LG. PHMS, XR–SS316
25	IVP1023	1	LIGHT PIPE, LED ALARM

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn: JRN Date: 28APR09
Eng.: RES Date: 10MAY10
QA.: FXC Date: 10MAY10
M.A.: FXC Date: 10MAY10
Mfg.: TWF Date: 10MAY10

SEE SHEET 1

Do NOT scale this drawing !

Third Angle Projection

Iradimed Corporation

Title: ASSEMBLY, 3861 MR SIDECAR H_FLOW

Size: D

Part/Dwg. No: AF3861

Rev: B

Cod. Scale: NA

Sheet 2 of 4

Rev. | Description | Date

Revision History

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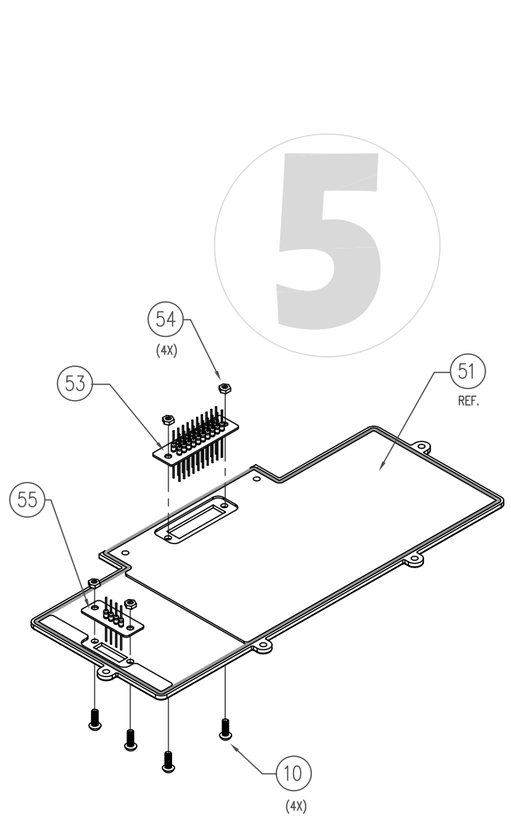
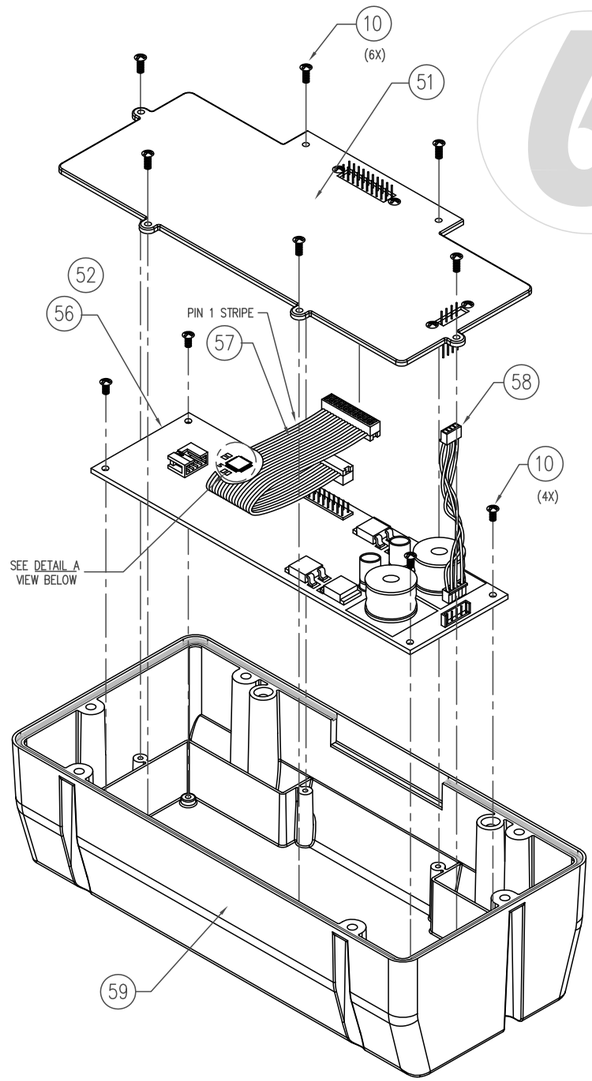
LF21 Rev. A

Figure 5-65. AF3861 SideCar Assembly Sheet 2 of 4





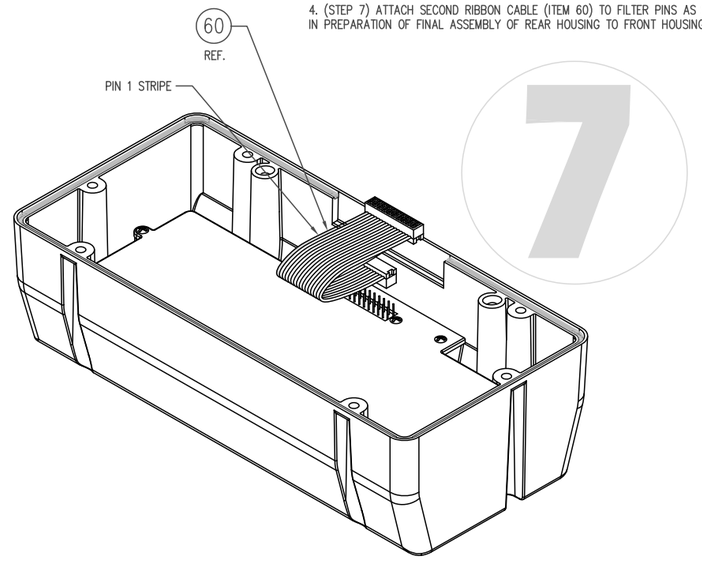
ASSEMBLY NOTES (THIS SHEET)

1. USE LOCTITE #425 "ASSURE" ON ALL THREADS.

2. (STEP 5) PREPARE REAR COVER (ITEM 51) ASSEMBLY FIRST BY INSTALLING FILTER PLATES (ITEM 53 AND 55) THRU FROM BACK SIDE OF COVER USING SPECIFIED HARDWARE AS SHOWN. ATTACH GASKET MATERIAL (ITEM 52) ALONG OUTER EDGE FOLLOWING GROOVE ON BACKSIDE OF COVER. INSURE GASKET MATERIAL COVERS ENTIRE AREA AND JOINS TOGETHER AT ONE POINT.

3. (STEP 6) ATTACH CABLES (ITEM 57 AND 58) TO PCBA (ITEM 56) WHERE SPECIFIED. INSTALL PCBA (ITEM 56) INTO PAINTED REAR HOUSING (ITEM 60) USING SPECIFIED HARDWARE. ATTACH CABLES TO PINS ON FILTER PLATES FROM BACKSIDE OF REAR COVER ASSEMBLY FOLDING CABLES IN TOWARDS PCB ASSEMBLY. LOCATE REAR COVER OVER MOUNTING HOLES IN REAR HOUSING AND ATTACH USING SPECIFIED HARDWARE.

4. (STEP 7) ATTACH SECOND RIBBON CABLE (ITEM 60) TO FILTER PINS AS SHOWN IN PREPARATION OF FINAL ASSEMBLY OF REAR HOUSING TO FRONT HOUSING.



ITEM	PART NO.	QTY.	DESCRIPTION
60	AC34	1	CABLE, RIBBON, 3851, 20 PIN
59	IVP1061	1	REAR HOUSING, 3861 SERIES
58	AC05	1	CABLE, MOTOR DRIVE, 3850, 4 PIN
57	AC12	1	CABLE, RIBBON, 3850, 20 PIN
56	IVPAB011	1	PCBA, SIDECAR PUMP
55	PF09	1	FILTER PLATE, 4P, SR, 100pF, 52-970-213
54	N002	4	NUT, HEX, #4-40 REG. SERIES-SS316
53	PF10	1	FILTER PLATE, 20P, DR, 1500pF, 52-972-523
52	PA39	2	JUMPER, 2P SHORTING, KOBICONN 151-8010
51	IVP1059	1	REAR COVER, PCB, SIDECAR

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Iradimed Corporation

Drawn: JRN	Date: 28APR09	
Eng.: RES	Date: 10MAY10	Title: ASSEMBLY, 3861 MR SIDECAR H_FLOW
Q.A.: FXC	Date: 10MAY10	Size: D
R.A.: FXC	Date: 10MAY10	
Mfg.: TMF	Date: 10MAY10	Part/Dwg. No: AF3861
		Rev: B

Do NOT scale this drawing !

SEE SHEET 1

Rev.	Description	Date
Revision History		

Third Angle Projection

Cad. Scale: NA | Sheet 3 of 4

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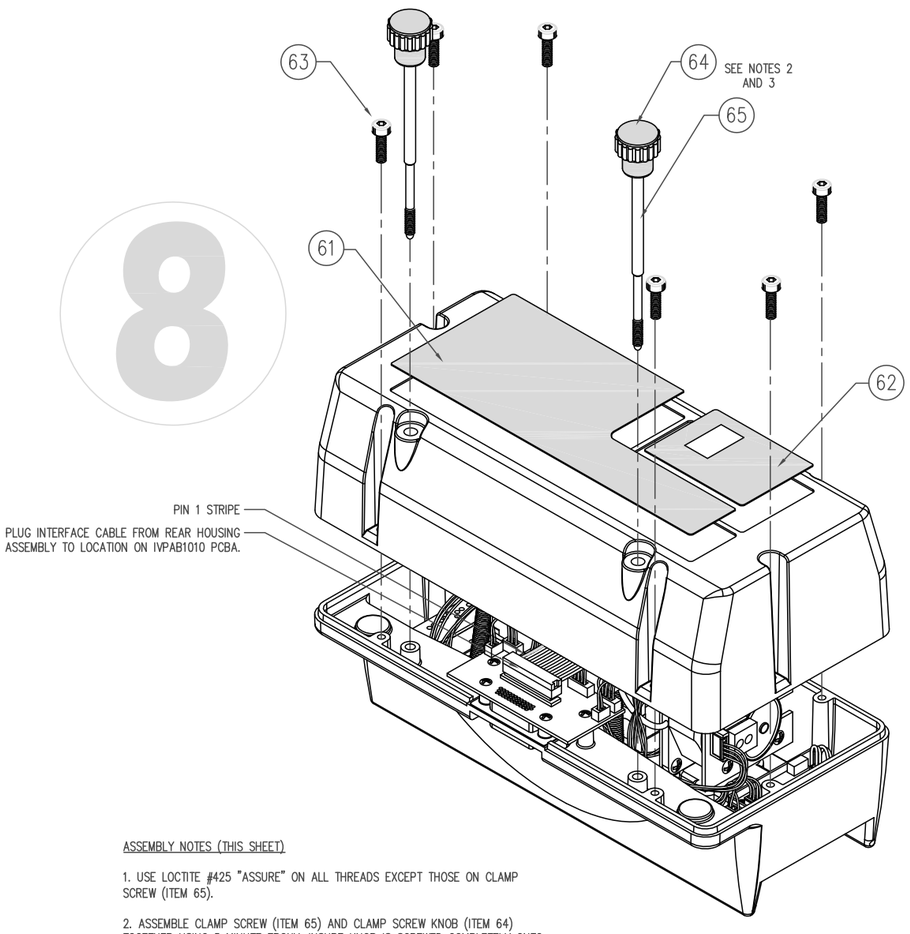
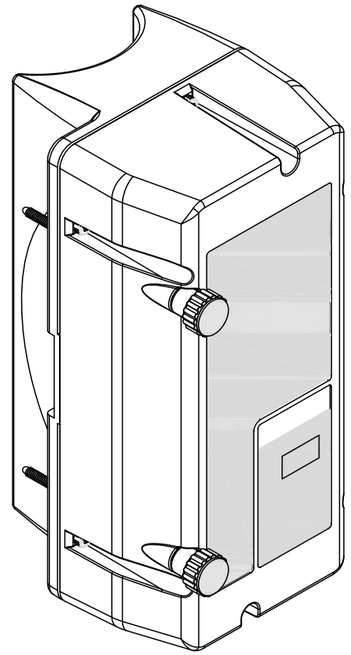
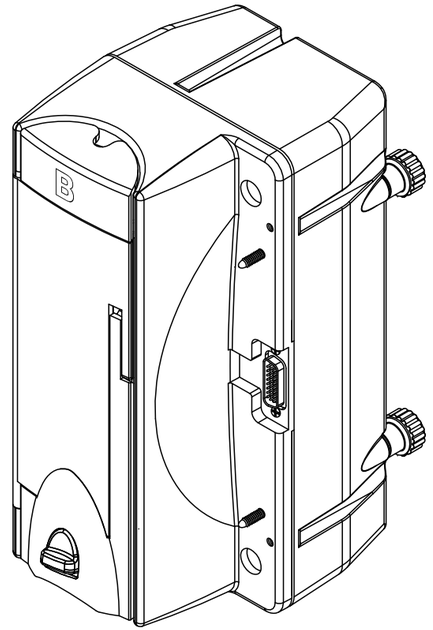
LF21 Rev. A

Figure 5-66. AF3861 SideCar Assembly Sheet 3 of 4







ASSEMBLY NOTES (THIS SHEET)

1. USE LOCTITE #425 "ASSURE" ON ALL THREADS EXCEPT THOSE ON CLAMP SCREW (ITEM 65).

2. ASSEMBLE CLAMP SCREW (ITEM 65) AND CLAMP SCREW KNOB (ITEM 64) TOGETHER USING 5 MINUTE EPOXY. INSURE KNOB IS SCREWED COMPLETELY ONTO CLAMP SCREW AND ALLOW TO DRY BEFORE INSTALLING INTO ASSEMBLY.

3. ASSEMBLE CLAMP SCREW ASSEMBLY INTO REAR HOUSING BY THREADING THRU FROM BACKSIDE AS SHOWN AND ALLOWING ASSEMBLY TO THEN FALL THRU TO FRONT HOUSING. INSURE CLAMP SCREW CAN "FREE SPIN" ONCE ASSEMBLED.

ITEM	PART NO.	QTY.	DESCRIPTION
65	IVP1066	2	CLAMP SCREW, SIDECAR
64	HM37	2	KNOB, KNURLED, ELESA B.259/20 S-M6 CLEAN
63	NS32	6	SCREW,#8-32 X 1/2LG. PHMS, XR-SS316
62	LB2004	1	LABEL, SERIAL/MODEL NO., MRIVP
61	LB2017A	1	LABEL, ABREV OP INSTR, SIDECAR, 3861

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn: JRN Date: 28APR09
Eng.: RES Date: 10MAY10
Q.A.: FXC Date: 10MAY10
R.A.: FXC Date: 10MAY10
Mfg.: TMF Date: 10MAY10

Do NOT scale this drawing !

Third Angle Projection

Iradimed Corporation

Title: ASSEMBLY, 3861 MR SIDECAR H_FLOW
Size: D
Part/Dwg. No: AF3861
Rev.: B
Cad. Scale: NA
Sheet 4 of 4

SEE SHEET 1

Rev.	Description	Date

Revision History

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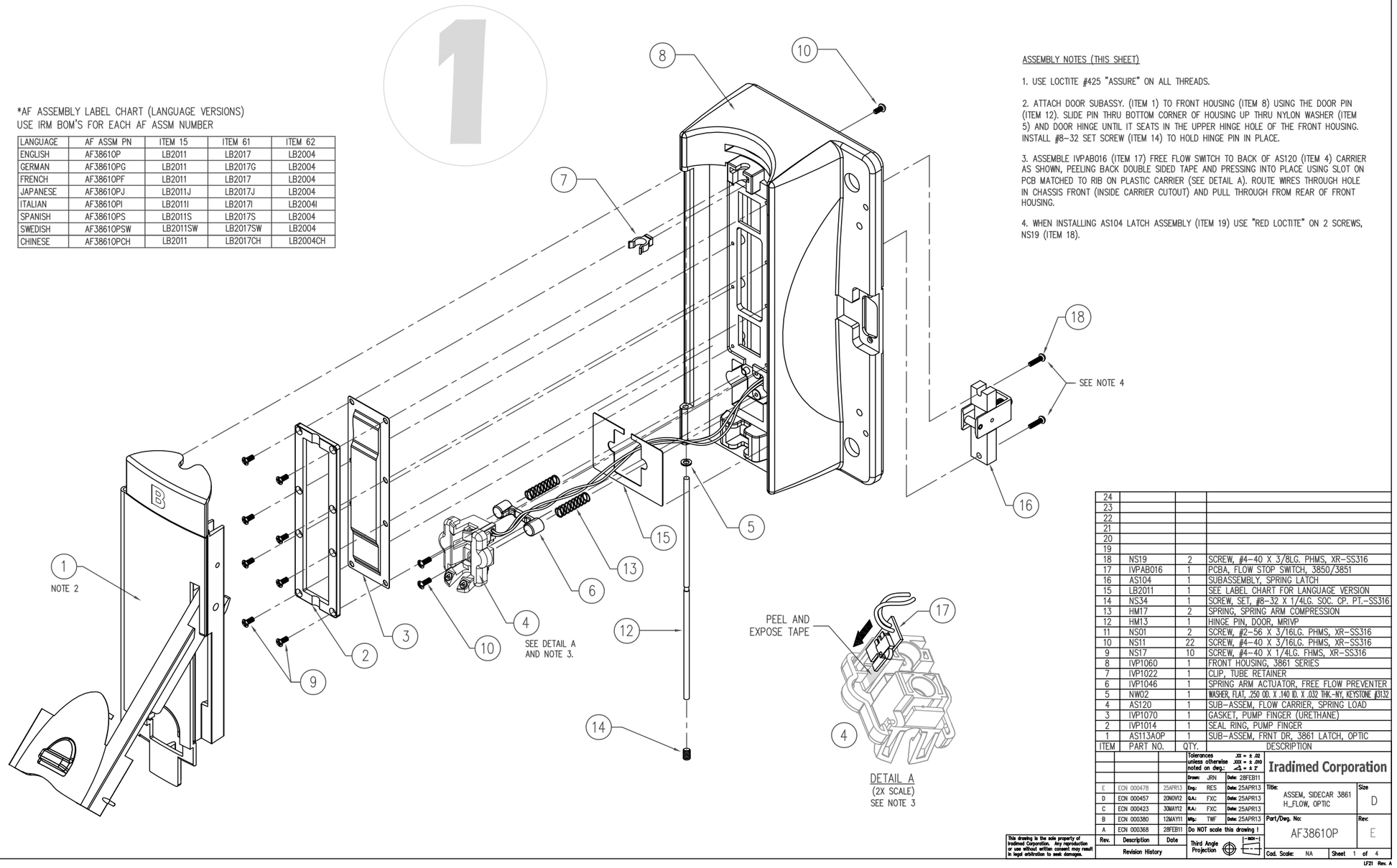
LF21 Rev. A

Figure 5-67. AF3861 SideCar Assembly Sheet 4 of 4

*AF ASSEMBLY LABEL CHART (LANGUAGE VERSIONS)
USE IRM BOM'S FOR EACH AF ASSM NUMBER

LANGUAGE	AF ASSM PN	ITEM 15	ITEM 61	ITEM 62
ENGLISH	AF3861OP	LB2011	LB2017	LB2004
GERMAN	AF3861OPG	LB2011	LB2017G	LB2004
FRENCH	AF3861OPF	LB2011	LB2017	LB2004
JAPANESE	AF3861OPJ	LB2011J	LB2017J	LB2004
ITALIAN	AF3861OPI	LB2011I	LB2017I	LB2004I
SPANISH	AF3861OPS	LB2011S	LB2017S	LB2004
SWEDISH	AF3861OPSW	LB2011SW	LB2017SW	LB2004
CHINESE	AF3861OPCH	LB2011	LB2017CH	LB2004CH



ASSEMBLY NOTES (THIS SHEET)

1. USE LOCTITE #425 "ASSURE" ON ALL THREADS.

2. ATTACH DOOR SUBASSY. (ITEM 1) TO FRONT HOUSING (ITEM 8) USING THE DOOR PIN (ITEM 12). SLIDE PIN THRU BOTTOM CORNER OF HOUSING UP THRU NYLON WASHER (ITEM 5) AND DOOR HINGE UNTIL IT SEATS IN THE UPPER HINGE HOLE OF THE FRONT HOUSING. INSTALL #8-32 SET SCREW (ITEM 14) TO HOLD HINGE PIN IN PLACE.

3. ASSEMBLE IVPAB016 (ITEM 17) FREE FLOW SWITCH TO BACK OF AS120 (ITEM 4) CARRIER AS SHOWN, PEELING BACK DOUBLE SIDED TAPE AND PRESSING INTO PLACE USING SLOT ON PCB MATCHED TO RIB ON PLASTIC CARRIER (SEE DETAIL A). ROUTE WIRES THROUGH HOLE IN CHASSIS FRONT (INSIDE CARRIER CUTOUT) AND PULL THROUGH FROM REAR OF FRONT HOUSING.

4. WHEN INSTALLING AS104 LATCH ASSEMBLY (ITEM 19) USE "RED LOCTITE" ON 2 SCREWS, NS19 (ITEM 18).

ITEM	PART NO.	QTY.	DESCRIPTION
24			
23			
22			
21			
20			
19			
18	NS19	2	SCREW, #4-40 X 3/8LG. PHMS, XR-SS316
17	IVPAB016	1	PCBA, FLOW STOP SWITCH, 3850/3851
16	AS104	1	SUBASSEMBLY, SPRING LATCH
15	LB2011	1	SEE LABEL CHART FOR LANGUAGE VERSION
14	NS34	1	SCREW, SET, #8-32 X 1/4LG. SOC. CP. PT.-SS316
13	HM17	2	SPRING, SPRING ARM COMPRESSION
12	HM13	1	HINGE PIN, DOOR, MRIVP
11	NS01	2	SCREW, #2-56 X 3/16LG. PHMS, XR-SS316
10	NS11	22	SCREW, #4-40 X 3/16LG. PHMS, XR-SS316
9	NS17	10	SCREW, #4-40 X 1/4LG. FHMS, XR-SS316
8	IVP1060	1	FRONT HOUSING, 3861 SERIES
7	IVP1022	1	CLIP, TUBE RETAINER
6	IVP1046	1	SPRING ARM ACTUATOR, FREE FLOW PREVENTER
5	NW02	1	WASHER, FLAT, .250 OD. X .140 ID. X .032 THK.-NY, KEYSTONE #3132
4	AS120	1	SUB-ASSEM, FLOW CARRIER, SPRING LOAD
3	IVP1070	1	GASKET, PUMP FINGER (URETHANE)
2	IVP1014	1	SEAL RING, PUMP FINGER
1	AS113A0P	1	SUB-ASSEM, FRNT DR, 3861 LATCH, OPTIC

Rev.	Description	Date
E	ECN 000478	25APR13
D	ECN 000457	20NOV12
C	ECN 000423	30MAY12
B	ECN 000380	12MAY11
A	ECN 000368	28FEB11

Revision History

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°
Drawn: JRN Date: 28FEB11
Eng.: RES Date: 25APR13
Q.A.: FXC Date: 25APR13
R.A.: FXC Date: 25APR13
Mfg.: TWF Date: 25APR13
Do NOT scale this drawing !
Third Angle Projection

Iradimed Corporation

Title: ASSEM, SIDECAR 3861 H_FLOW, OPTIC
Size: D
Part/Dwg. No: AF3861OP
Rev: E
Cad. Scale: NA
Sheet 1 of 4

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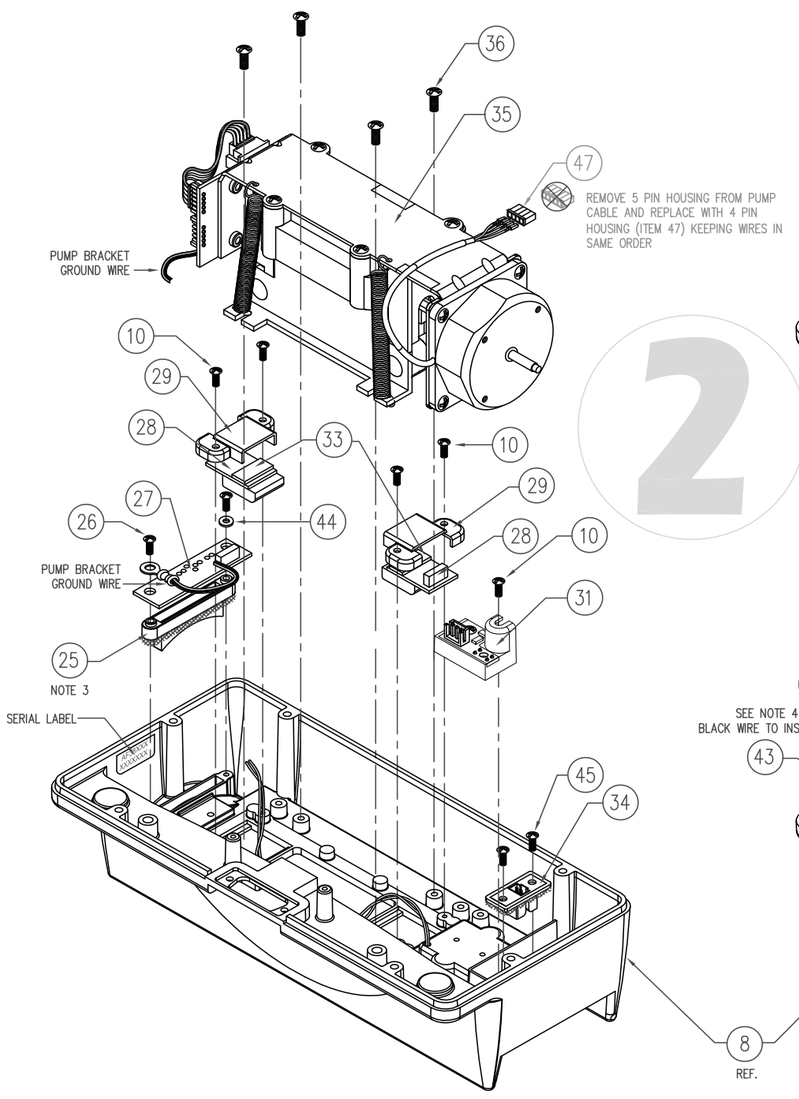
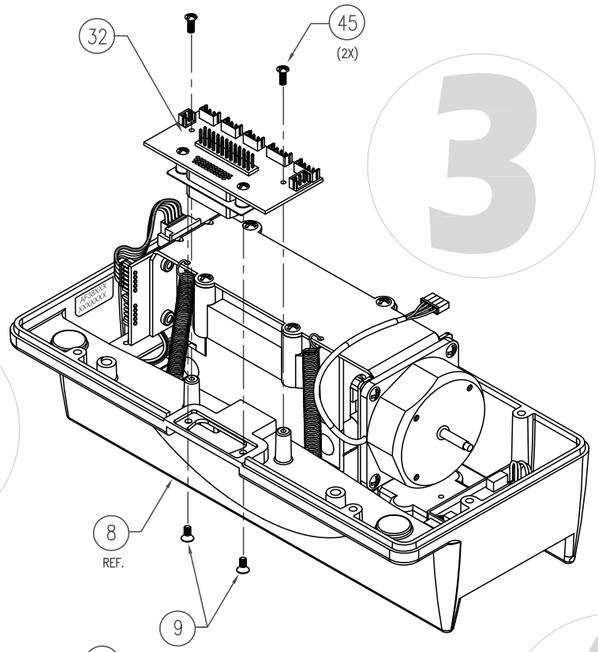
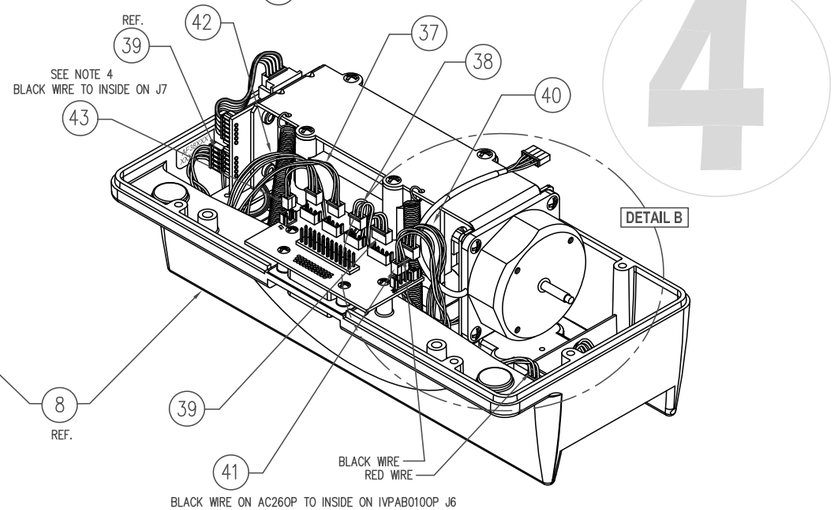
LF21 Rev. A

Figure 5-68. AF3861OP SideCar Assembly Sheet 1 of 4*







ASSEMBLY NOTES (THIS SHEET)

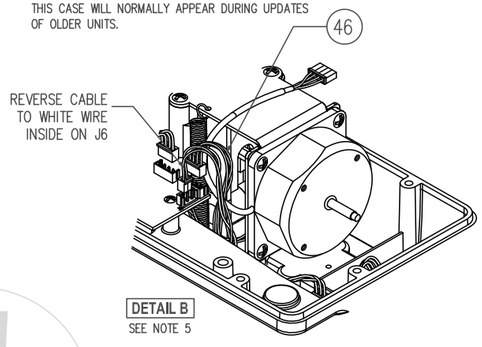
1. USE LOCTITE #425 "ASSURE" ON ALL THREADS.

2. PLACE AN .03–.06 BEAD OF RTV 732 SILICONE ADHESIVE OR EQUIVALENT COMPLETELY AROUND EDGE OF BUBBLE DETECTOR FLANGE (P/O ITEM 34) BEFORE PLACING DETECTOR INTO FRONT HOUSING (ITEM 8). PLACE DETECTOR INTO FRONT HOUSING BEFORE RTV DRIES.

3. PLACE AN .03–.06 BEAD OF RTV 732 SILICONE ADHESIVE OR EQUIVALENT COMPLETELY AROUND EDGE OF LIGHT PIPE FLANGE (ITEM 25) BEFORE PLACING LIGHT PIPE INTO FRONT HOUSING (ITEM 8). PLACE LIGHT PIPE INTO FRONT HOUSING BEFORE RTV DRIES.

4. PLACE WHITE AND BLACK WIRES FROM IVPAB016 ASSEMBLY (SEE SHEET 1) INTO 2 PIN HOUSING (ITEM 43) AS SHOWN AND PLUG INTO CONNECTOR HOUSING AT LOCATION J7 ON IVPAB010 (ITEM 32).

5. IF USING SIDECAR I/O PCBA IVPAB010, USE SPLIT CABLE AC49 (ITEM 46) FOR BOTH THE HE09A BUBBLE DETECTOR AND THE IVPAB031 OPTICAL DOOR SENSOR. THIS CASE WILL NORMALLY APPEAR DURING UPDATES OF OLDER UNITS.



ITEM	PART NO.	QTY.	DESCRIPTION
47	PA31	1	CONN., 4P HOUSING, SR. JST EHR-4
46	AC49	1	CABLE, OPTIC / BUBBLE DETECT, 3851/3861
45	NS13	4	SCREW, #4-40 X 5/16LG. PHMS, XR-SS316
44	NW02	1	WSHR, FLT,.250X.140X.032-NY,KEYSTN 3122
43	PA45	1	CONN. 2P HSG, SR, JST EHR-2
42	AC27	1	CABLE, ALARM, 3851, 3 PIN
41	AC260P	1	CABLE, DOOR SWITCH, 3851/61, 3 PIN
40	AC44	1	CABLE, BUBBLE DET., 3851/61, 4 PIN
39	AC24A	1	CABLE, TOP ENCODER, 3851/61, 4 PIN
38	AC23	1	CABLE, PRESS. SENS. 2 (BTM), 3851, 3 PIN
37	AC22	1	CABLE, PRESS. SENS. 1 (TOP), 3851, 3 PIN
36	NS21	4	SCREW, #6-32 X 1/4 LG. PHMS, XR-SS316
35	AS100A	1	SUB-ASSM., PUMP BLOCK, TOP ENCODER
34	HE09A	1	DETECTOR, BUBBLE, ZEVEX 44228 SENSOR
33	HM22	0.5	TAPE, FOAM, SINGLE-SIDED, .06 THK X 1.00 WD., 3M #4016-1
32	IVPAB0100P	1	PCBA, SIDECAR I/O 3851/61, OPTIC
31	IVPAB031	1	PCBA, OPTICAL DOOR SWITCH
30			
29	IVP1019	2	CAP, SENSOR
28	IVPAB007	2	PCBA, PRESSURE SENSOR
27	IVPAB004	1	PCBA, ALARM LED
26	NS14	2	SCREW, #4-40 X 1/2LG. PHMS, XR-SS316
25	IVP1023	1	LIGHT PIPE, LED ALARM

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Rev.	Description	Date
	SEE SHEET 1	

Revision History

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Third Angle Projection

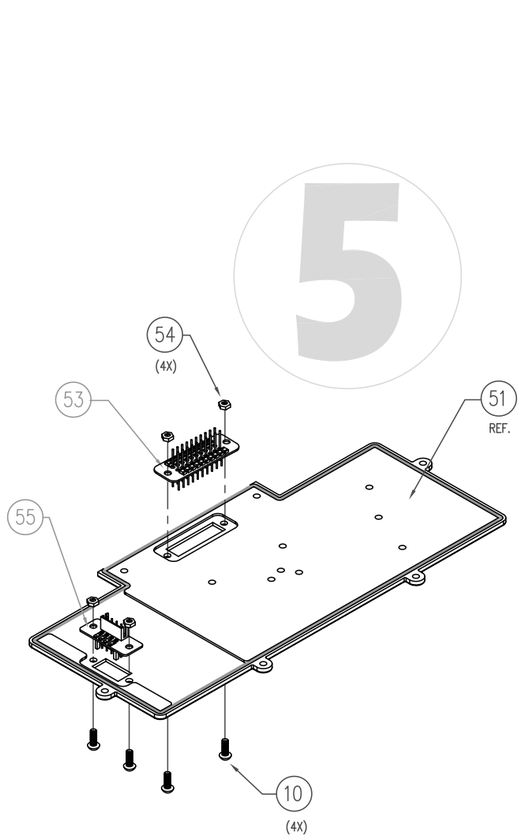
Iradimed Corporation

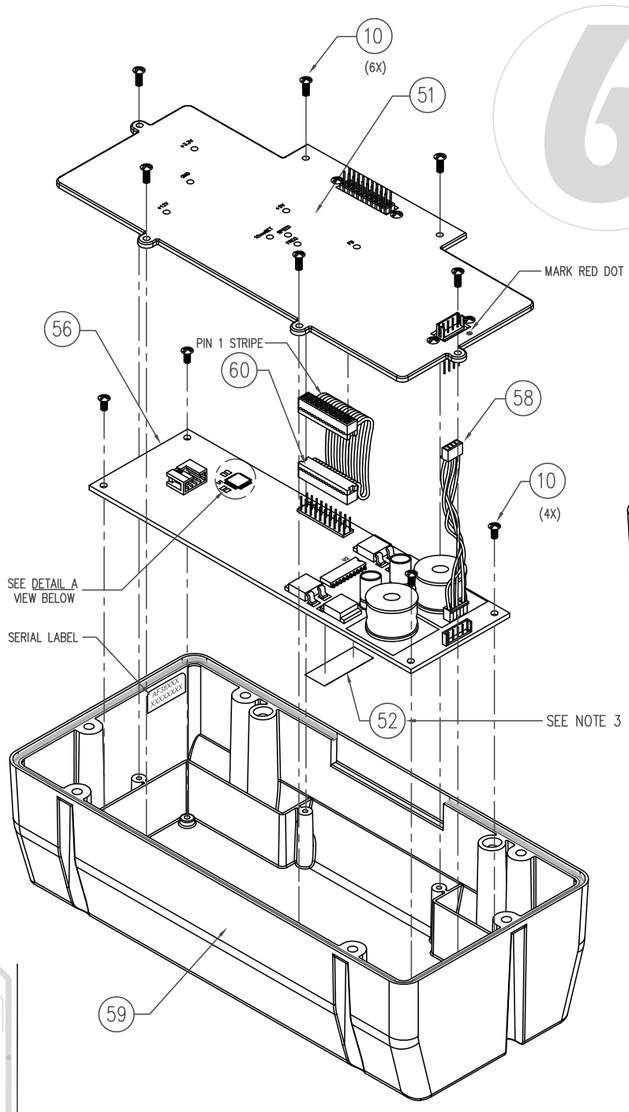
Drawn: JRN	Date: 28FEB11	
Eng.: RES	Date: 25APR13	Title: ASSEM, SIDECAR 3861 H_FLOW, OPTIC
Q.A.: FXC	Date: 25APR13	Size: D
R.A.: FXC	Date: 25APR13	
Mfg.: TMF	Date: 25APR13	Part/Dwg. No: AF3861OP
Do NOT scale this drawing !		Rev: E

Cad. Scale: NA | Sheet 2 of 4

LF21 Rev. A

Figure 5-69. AF3861OP SideCar Assembly Sheet 2 of 4*





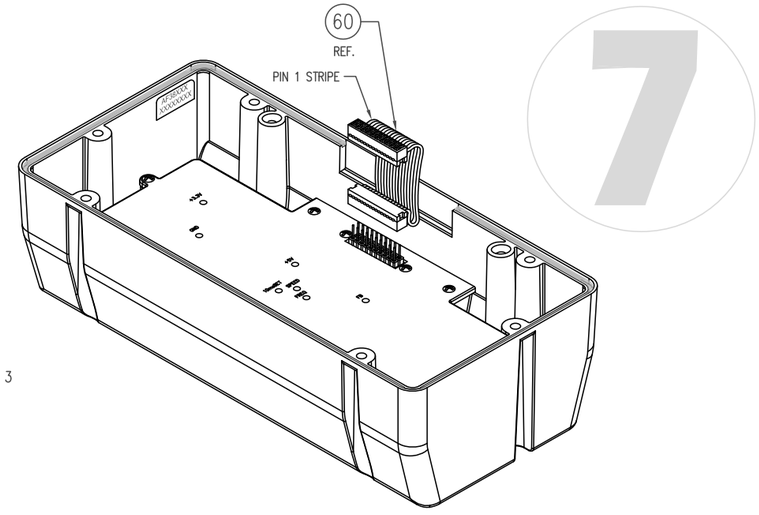
ASSEMBLY NOTES (THIS SHEET)

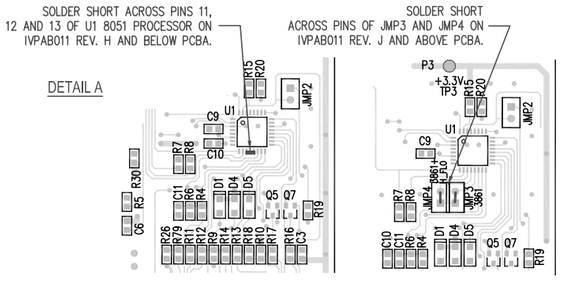
1. USE LOCTITE #425 "ASSURE" ON ALL THREADS.

2. (STEP 5) PREPARE REAR COVER (ITEM 51) ASSEMBLY FIRST BY INSTALLING FILTER PLATES (ITEM 53 AND 55) THRU FROM BACK SIDE OF COVER USING SPECIFIED HARDWARE AS SHOWN.

3. (STEP 6) TRIM THRU HOLE LEADS ON BACK OF PCBA (ITEM 56) AT U2 FLUSH TO BOARD. COVER EXPOSED LEADS WITH 1.5" OF KAPTON TAPE (ITEM 52). ATTACH CABLES (ITEM 57 AND 58) TO PCBA (ITEM 56) WHERE SPECIFIED. INSTALL PCBA (ITEM 56) INTO PAINTED REAR HOUSING (ITEM 60) USING SPECIFIED HARDWARE. ATTACH CABLES TO PINS ON FILTER PLATES FROM BACKSIDE OF REAR COVER ASSEMBLY FOLDING CABLES IN TOWARDS PCB ASSEMBLY. LOCATE REAR COVER OVER MOUNTING HOLES IN REAR HOUSING AND ATTACH USING SPECIFIED HARDWARE.

4. (STEP 7) ATTACH SECOND RIBBON CABLE (ITEM 60) TO FILTER PINS AS SHOWN IN PREPARATION OF FINAL ASSEMBLY OF REAR HOUSING TO FRONT HOUSING.




SOLDER SHORT ACROSS PINS 11, 12 AND 13 OF U1 8051 PROCESSOR ON IVPAB011 REV. H AND BELOW PCBA.
SOLDER SHORT ACROSS PINS OF JMP3 AND JMP4 ON IVPAB011 REV. J AND ABOVE PCBA.
DETAIL A
P3
+3.3V
TP3
U1
JMP2
JMP3
JMP4

ITEM	PART NO.	QTY.	DESCRIPTION
60	AC34	2	CABLE, RIBBON, 3851, 20 PIN
59	IVP1061	1	REAR HOUSING, 3861 SERIES
58	AC05	1	CABLE, MOTOR DRIVE, 3850, 4 PIN
57			
56	IVPAB011	1	PCBA, SIDECAR PUMP
55	IVPAB055	1	PCBA, 4 PIN HI-PWR FILTER, 3851/61
54	N002	4	NUT, HEX, #4-40 REG. SERIES-SS316
53	IVPAB050	1	PCBA, 20 PIN PASSTHRU, 3851/3861
52	M031	1.5	TAPE, #22 KAPTON, 1", ROLL, SHERCON
51	IVP1059	1	REAR COVER, PCB, SIDECAR

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn: JRN Date: 28FEB11
Eng.: RES Date: 25APR13
Q.A.: FXC Date: 25APR13
R.A.: FXC Date: 25APR13
Mfg.: TWF Date: 25APR13
Do NOT scale this drawing !

Iradimed Corporation

Title: ASSEM, SIDECAR 3861 H_FLOW, OPTIC
Size: D
Part/Dwg. No: AF3861OP
Rev.: E
Third Angle Projection
Cad. Scale: NA
Sheet 3 of 4

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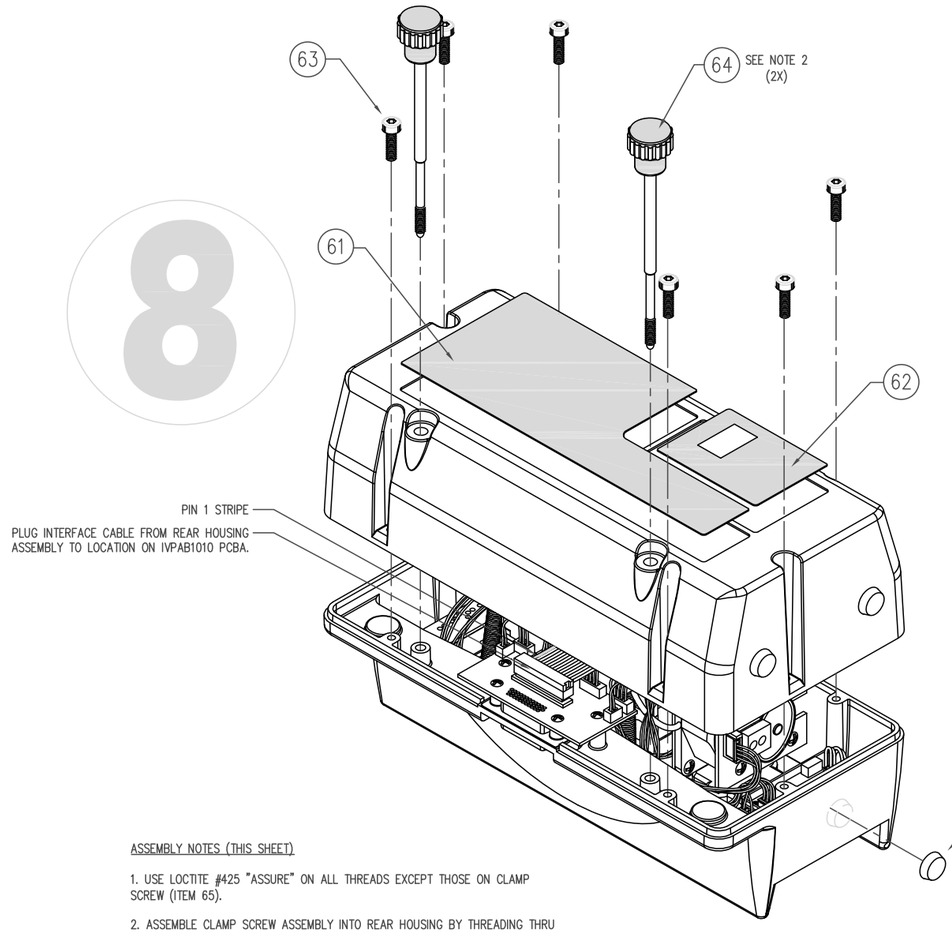
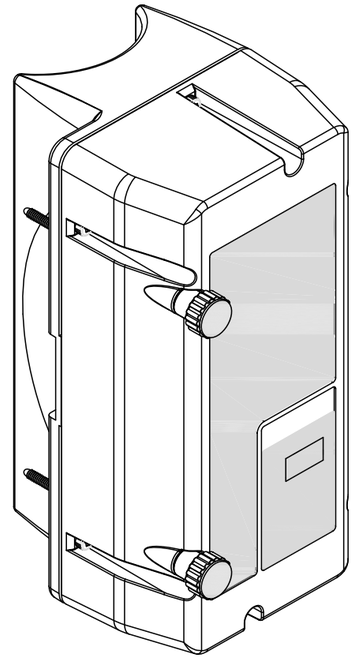
Rev.	Description	Date
	SEE SHEET 1	

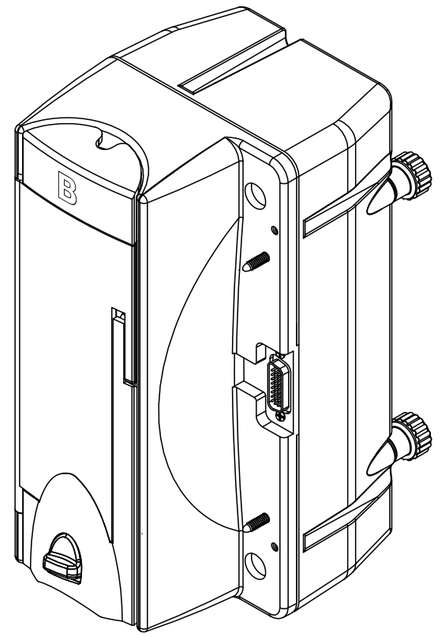
Revision History

LF21 Rev. A

Figure 5-70. AF3861OP SideCar Assembly Sheet 3 of 4*







ASSEMBLY NOTES (THIS SHEET)

1. USE LOCTITE #425 "ASSURE" ON ALL THREADS EXCEPT THOSE ON CLAMP SCREW (ITEM 65).

2. ASSEMBLE CLAMP SCREW ASSEMBLY INTO REAR HOUSING BY THREADING THRU FROM BACKSIDE AS SHOWN AND ALLOWING ASSEMBLY TO THEN FALL THRU TO FRONT HOUSING. INSURE CLAMP SCREW CAN "FREE SPIN" ONCE ASSEMBLED.

ITEM	PART NO.	QTY.	DESCRIPTION
65	HM03	3	FOOT, CLEAR BUMPON (SJ5312-7-ND)
64	AS134	2	SUB-ASSM, CLAMP SCREW, SIDECAR
63	NS32	6	SCREW,#8-32 X 1/2LG. PHMS, XR-SS316
62	LB2004	1	SEE LABEL CHART SHEET 1
61	LB2017	1	SEE LABEL CHART SHEET 1

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Iradimed Corporation

Drawn: JRN Date: 28FEB11
Eng.: RES Date: 25APR13
Q.A.: FXC Date: 25APR13
M.A.: FXC Date: 25APR13
Mfg.: TWF Date: 25APR13

Title: ASSEM, SIDECAR 3861 H_FLOW, OPTIC
Size: D
Part/Dwg. No: AF3861OP
Rev: E
Do NOT scale this drawing !
SEE SHEET 1

Rev.	Description	Date
Revision History		

Third Angle Projection
Cad. Scale: NA
Sheet 4 of 4

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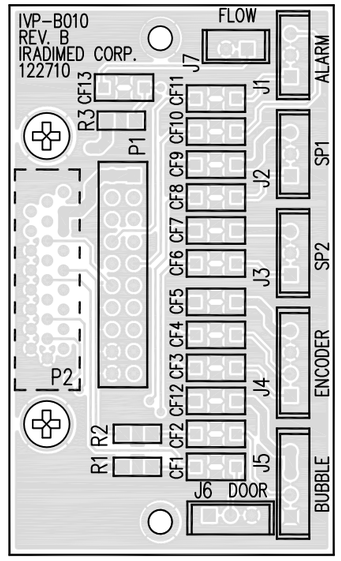
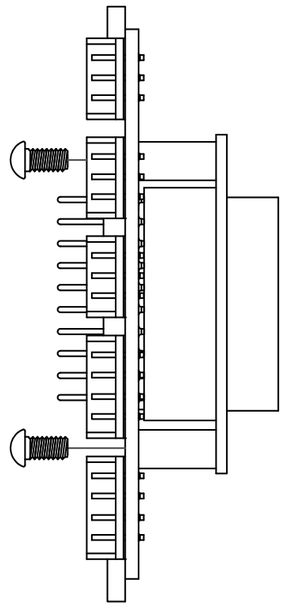
LF21 Rev. A

Figure 5-71. AF3861OP SideCar Assembly Sheet 4 of 4*





NOTES:

1. MOUNT CONNECTOR AT LOCATION P2 FROM BACKSIDE OF PCB USING 2 #4-40 X 3/16 SCREWS (NS11).

2. ASSEMBLY MUST MEET IPC-610A CLASS 3 STANDARD FOR SOLDERABILITY AND ELECTRONIC ASSEMBLIES.

REF. ELECTRONIC B.O.M. IVPAB010 REV. E

Rev.	Description	Date
	Revision History	
E	ECN 000357	27DEC10
D	ECN 000331	12JAN10
C	ECN 000258	24JUL08
B	ECN 000086	05MAY06
A	ECN 000023	30DEC05

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn: JRN Date: 20JAN05
Eng.: RES Date: 27DEC10
Q.A.: FXC Date: 27DEC10
R.A.: FXC Date: 27DEC10
Mfg.: TWF Date: 27DEC10

Do NOT scale this drawing !

Third Angle Projection — INCH

Iradimed Corporation

Title: PCBA, SIDECAR I/O 3851 SIDECAR
Size: B
Part/Dwg. No: IVPAB010
Rev: E
Cad. Scale: 2:1
Sheet 1 of 1

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LF19 Rev. A

Figure 5-72. IVPAB010 SideCar I/O Interface PCBA

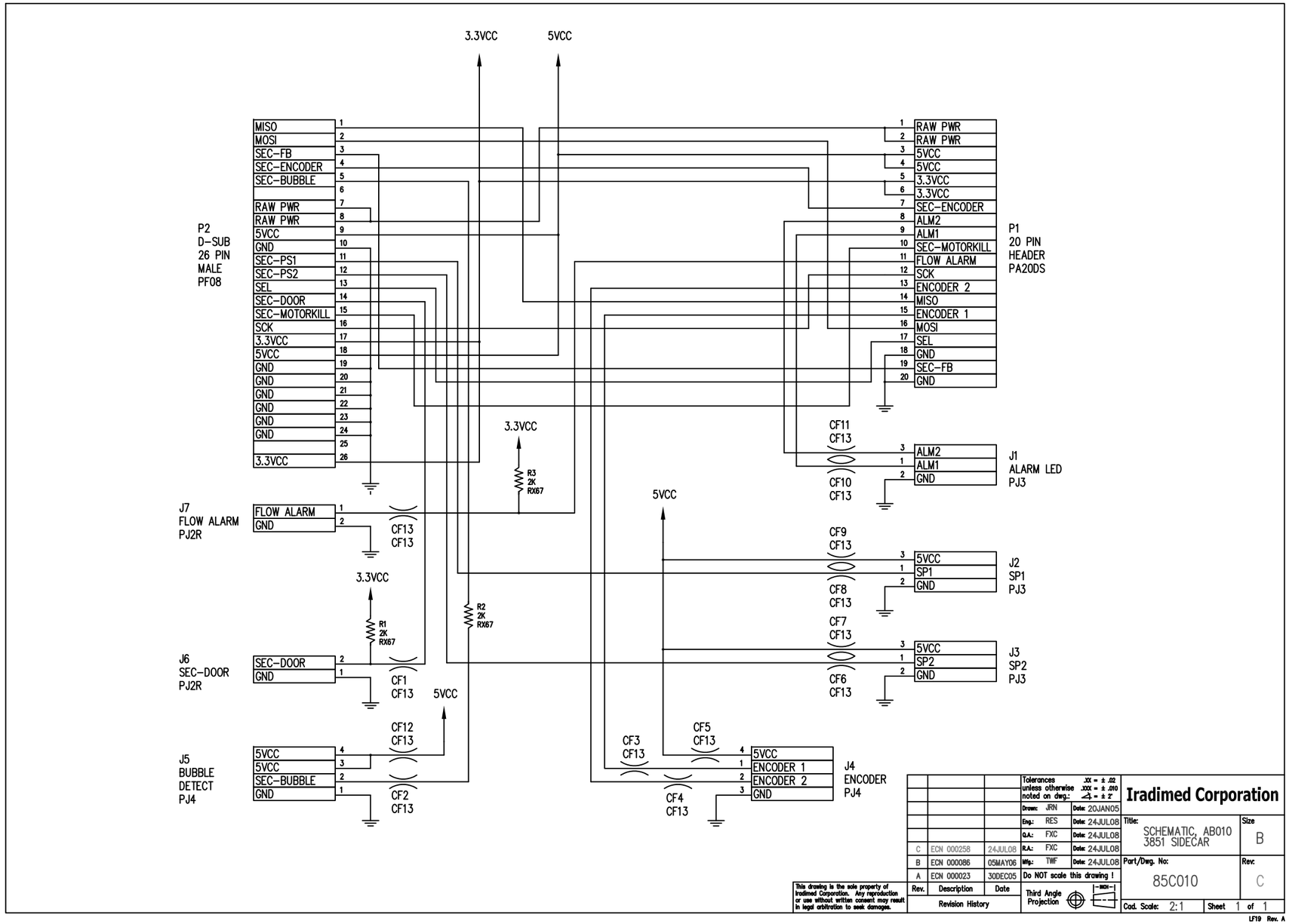
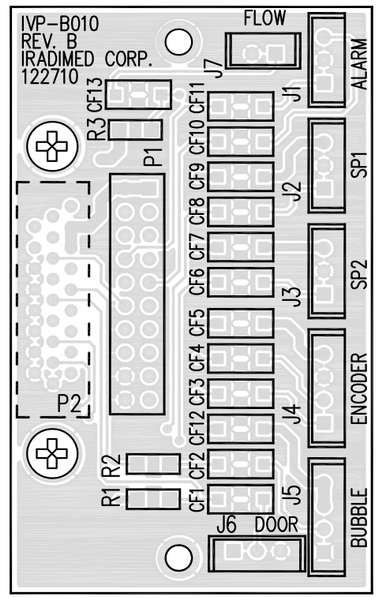
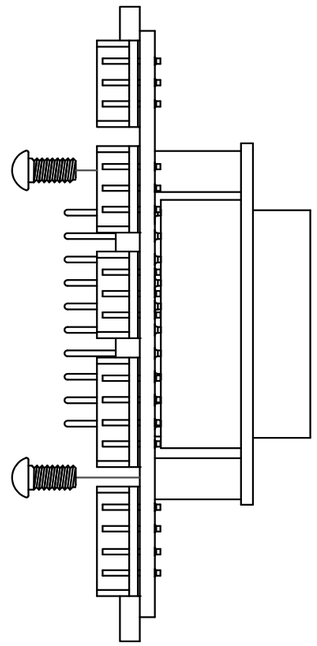


Figure 5-73. IVPAB010 (85C010) SideCar I/O Interface Schematic





NOTES:

1. MOUNT CONNECTOR AT LOCATION P2 FROM BACKSIDE OF PCB USING 2 #4–40 X 3/16 SCREWS (NS11).
2. ASSEMBLY MUST USE B010 REV. B PCB OR HIGHER.
3. ASSEMBLY MUST MEET IPC–610A CLASS 3 STANDARD FOR SOLDERABILITY AND ELECTRONIC ASSEMBLIES.

REF. ELECTRONIC B.O.M. IVPAB0100P REV. B

Rev.	Description	Date
B	ECN 000378	19APR11
A	ECN 000368	28FEB11

Revision History

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Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn: JRN Date: 28FEB11
Eng.: RES Date: 19APR11
Q.A.: FXC Date: 19APR11
R.A.: FXC Date: 19APR11
Mfg.: TWF Date: 19APR11

Do NOT scale this drawing !

Third Angle Projection — INCH

Iradimed Corporation

Title: PCBA, SIDECAR I/O 3851/61 OPTIC
Size: B
Part/Dwg. No: IVPAB0100P
Rev: B
Cad. Scale: 2:1
Sheet 1 of 1

LF19 Rev. A

Figure 5-74. IVPAB010OP SideCar I/O Interface PCBA*

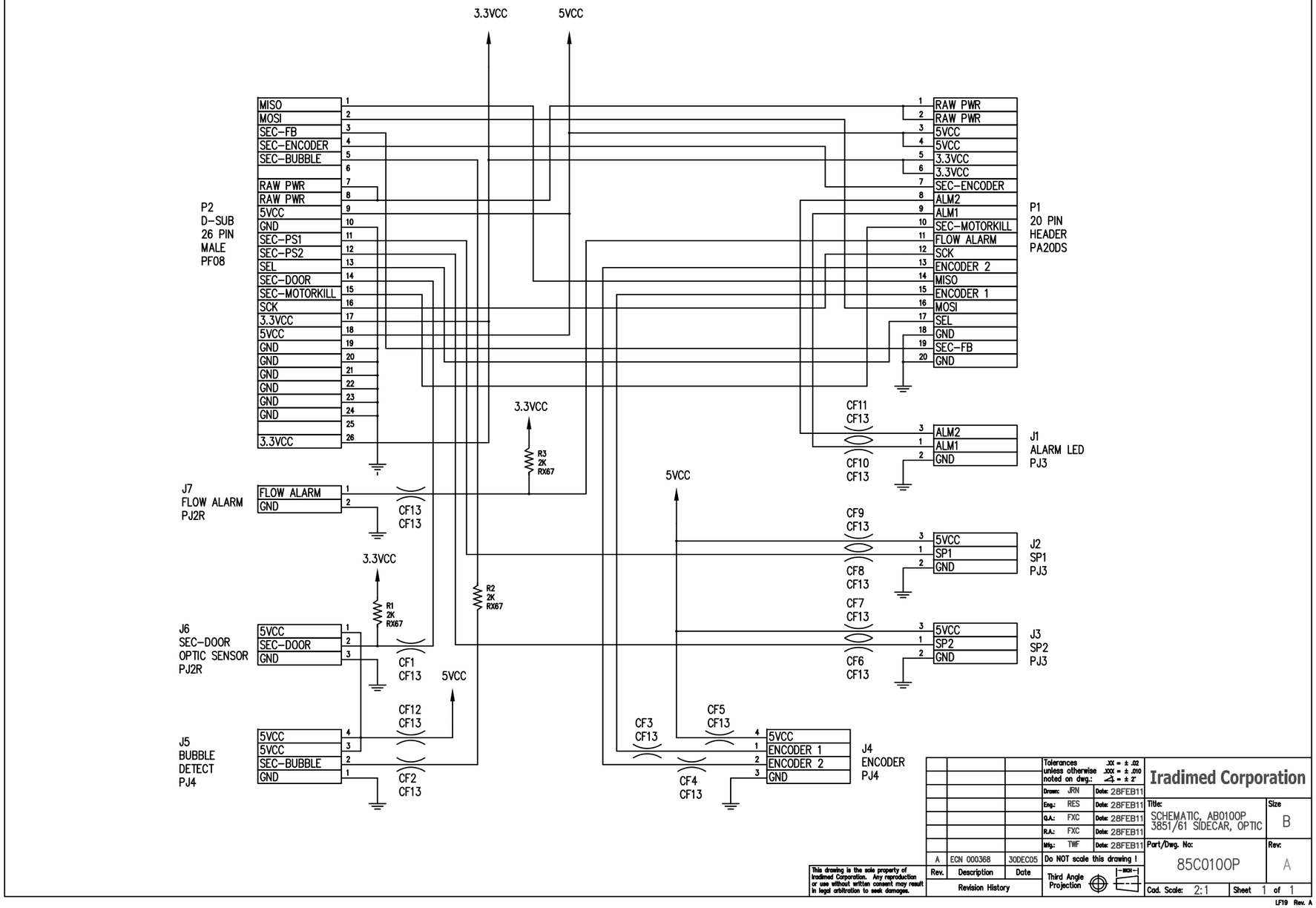
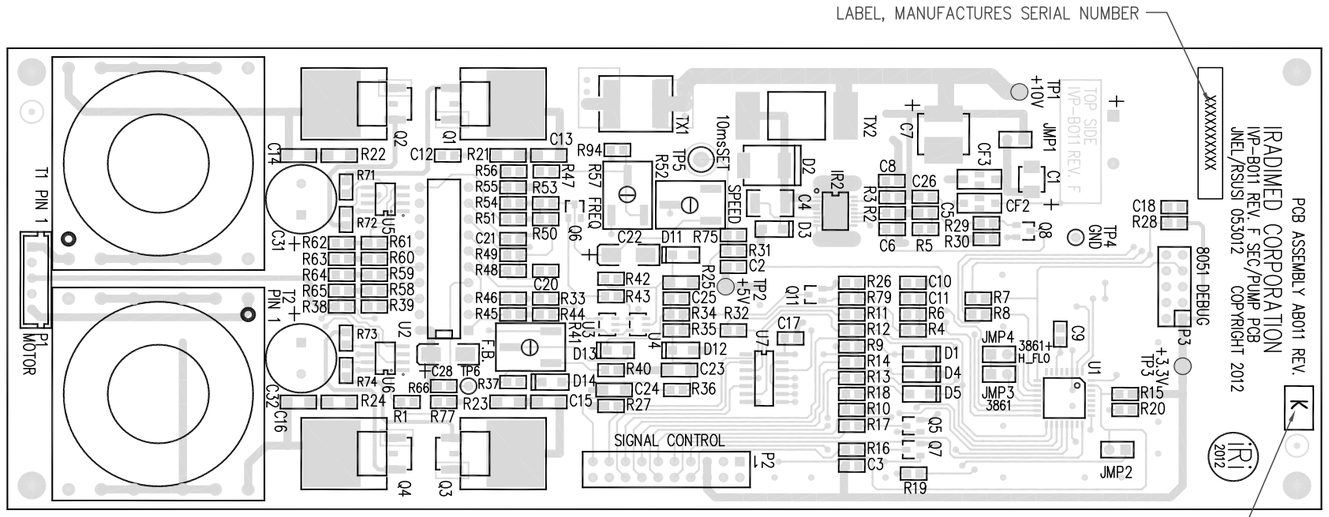


Figure 5-75. IVPAB010OP (85C010OP) SideCar I/O Interface PCBA Schematic*



NOTES:

1. ASSEMBLY REVISION K WILL USE BLANK PCB IVP–B011 REV. F. USE IRADIMED BOM IVPAB011 REV. K FOR LIST OF ITEM NUMBERS AND COMPONENTS.

2. PCBA TO BE SUPPLIED WITH SOFTWARE INSTALLED. SEE SI001 FOR PROGRAMMING INSTRUCTIONS.

3. ASSEMBLY MUST MEET IPC–610A CLASS 3 STANDARD FOR SOLDERABILITY AND ELECTRONIC ASSEMBLIES.

Rev.	Description	Date
K	ECN 000419	12JUN12
J	ECN 000284	12JAN10
H	ECN 000271	19DEC08
G	ECN 000250	18JUL08
F	ECN 000196	04MAY07
E	ECN 000195	10APR07

Revision History

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Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn: JRN Date: 15AUG05
Eng.: RES Date: 12JUN12
Q.A.: FXC Date: 12JUN12
R.A.: FXC Date: 12JUN12
Mfg.: TWF Date: 12JUN12

Do NOT scale this drawing !

Third Angle Projection — INCH

Iradimed Corporation

Title: ASSEMBLY: SEC/PUMP PCB SIDE CAR 3851
Size: C
Part/Dwg. No: IVPAB011
Rev: K
Cad. Scale: 2:1
Sheet 1 of 1

LF20 Rev. A

Figure 5-76. IVPAB011 SideCar Secondary Pump PCBA

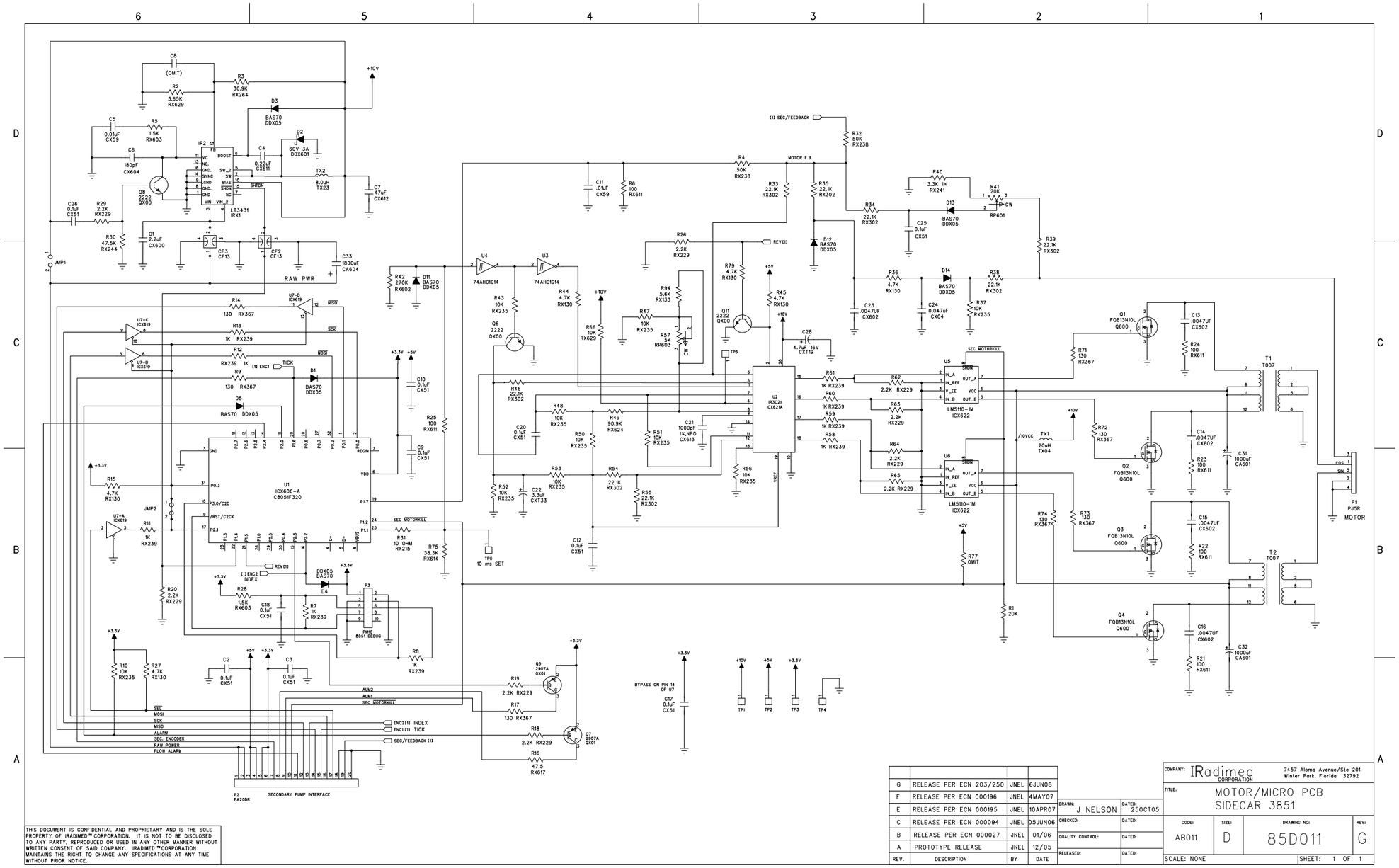
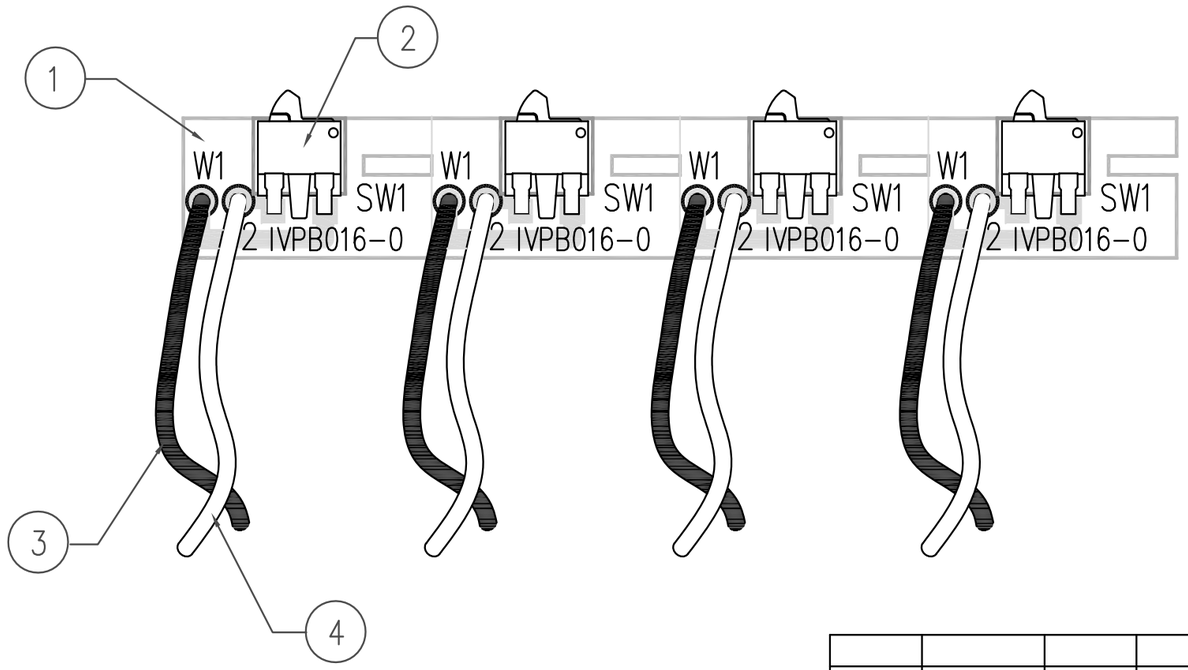


Figure 5-77. IVPAB011 (85D011) SideCar Secondary Pump Schematic



NOTES

1. STRIP WIRES (ITEMS 3–4) 0.19–0.25 BOTH ENDS BEFORE CRIMPING TERMINALS (ITEM 5) 1 EACH.
2. AFTER CRIMPING TERMINALS (ITEM 5) ONTO WIRES (ITEMS 3–4), TWIST WIRES 1–2 TURNS PER INCH. SOLDER OTHER END OF WIRES TO PCB WITH BLACK WIRE TO LOCATION W1 AND WHITE WIRE TO LOCATION W2.
3. SOLDER SWITCH (ITEM 2) IN PLACE ON PCB IN MARKED SW1 LOCATION.
4. CONTINUE WITH THIS ASSEMBLY ON REMAINING PCB PANELS.
5. BREAK AWAY PANELS ON SCORE LINES TO PROVIDE 4 FINISHED ASSEMBLIES.
6. ASSEMBLY MUST MEET IPC–610A CLASS 3 STANDARD FOR SOLDERABILITY AND ELECTRONIC ASSEMBLIES.

ITEM NO.	PART NO.	QTY.	DESCRIPTION
5	PA36	2	TERM., CRIMP, 22–30 GA, JST SEH–001T–P0.6
4	W004	10.00	WIRE, WHITE, UL1429–26/19
3	W003	10.00	WIRE, BLACK, UL1429–26/19
2	HE16	1	SWITCH, DETECTOR 2MM HORZ MT SMD
1	B016	1	PCB, FREE FLOW SWITCH 3850/3851

PARTS LIST

Rev.	Description	Date
A	ECN 000331	12JAN10

Revision History

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn: JRN Date: 03MAR06
Eng.: GRB Date: 12JAN10
Q.A.: FXC Date: 12JAN10
R.A.: FXC Date: 12JAN10
Mfg.: TWF Date: 12JAN10

Do NOT scale this drawing !

Third Angle Projection — INCH

Iradimed Corporation

Title: PCB ASSM., FREE FLOW SWITCH 3850/51, 3860/61

Size: C

Part/Dwg. No: IVPAB016

Rev: A

Cad. Scale: Sheet of

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ECN 000006

LF19 Rev. A

Figure 5-78. IVPAB016 Free Flow Switch PCBA

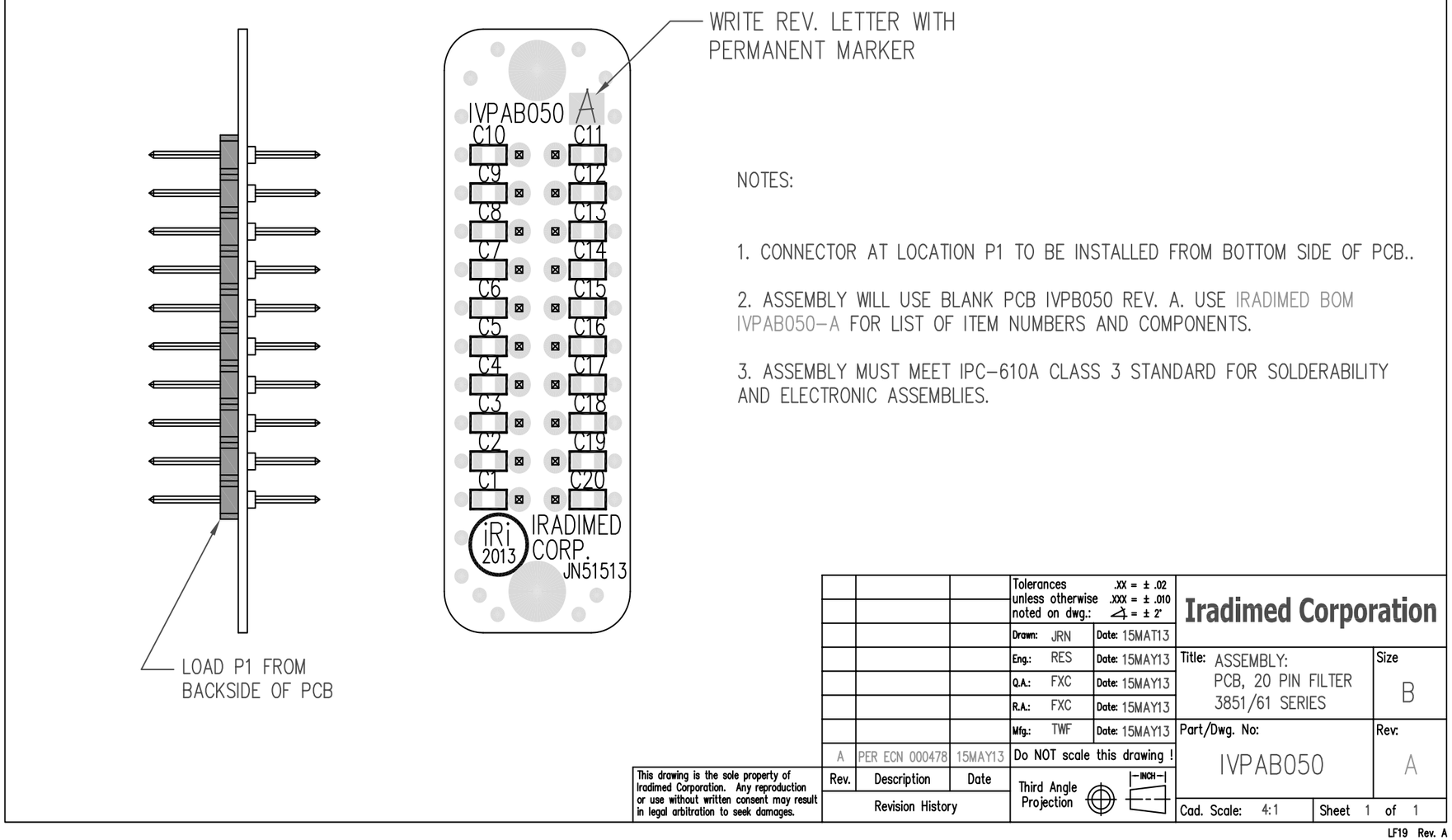
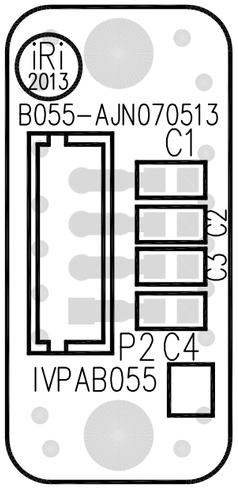


Figure 5-79. IVPAB050 Inline Filter PCBA



NOTES:

1. CONNECTOR AT LOCATION P1 TO BE INSTALLED FROM BOTTOM SIDE OF PCB..

2. ASSEMBLY WILL USE BLANK PCB IVPB055 REV. A. USE IRADIMED BOM IVPAB055-A FOR LIST OF ITEM NUMBERS AND COMPONENTS.

3. ASSEMBLY MUST MEET IPC-610A CLASS 3 STANDARD FOR SOLDERABILITY AND ELECTRONIC ASSEMBLIES.

Rev.	Description	Date
A	PER ECN 000478	15MAY13

Revision History

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Do NOT scale this drawing !

Third Angle Projection — INCH

Drawn:	JRN	Date: 15MAY13
Eng.:	RES	Date: 15MAY13
Q.A.:	FXC	Date: 15MAY13
R.A.:	FXC	Date: 15MAY13
Mfg.:	TWF	Date: 15MAY13

Iradimed Corporation

Title: ASSEMBLY: PCB, 4 PIN HI-PWR FILTER 3851/3861

Size: B

Part/Dwg. No: IVPAB055

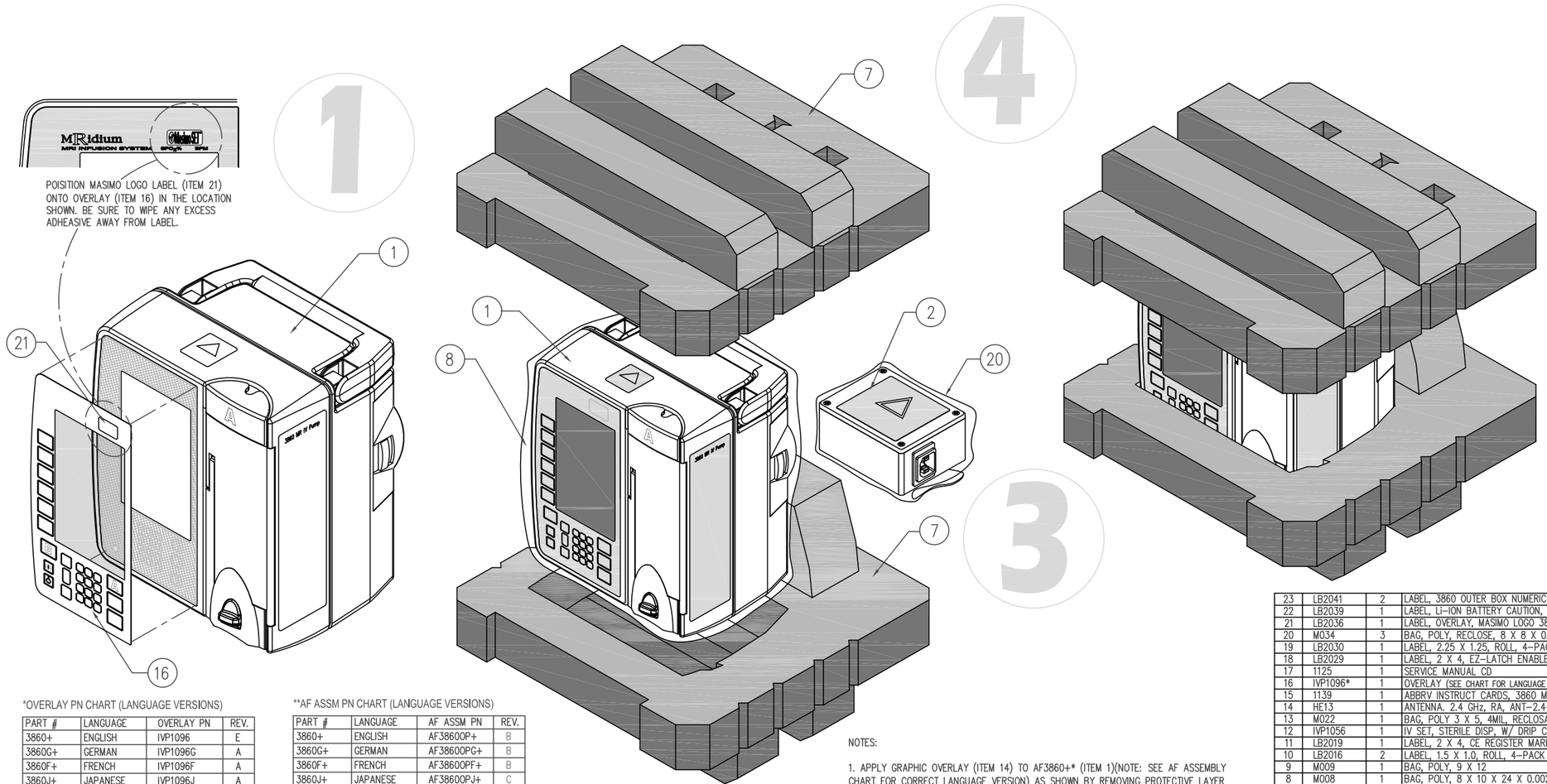
Rev: A

Cad. Scale: 4:1

Sheet 1 of 1

LF19 Rev. A

Figure 5-80. IVPAB055 4 Line Hi-PWR Filter PCBA



*OVERLAY PN CHART (LANGUAGE VERSIONS)

PART #	LANGUAGE	OVERLAY PN	REV.
3860+	ENGLISH	IVP1096	E
3860G+	GERMAN	IVP1096G	A
3860F+	FRENCH	IVP1096F	A
3860J+	JAPANESE	IVP1096J	A
3860I+	ITALIAN	IVP1096	A
3860S+	SPANISH	IVP1096	A
3860SW+	SWEDISH	IVP1096	A
3860CH+	CHINESE	IVP1096	A

**AF ASSM PN CHART (LANGUAGE VERSIONS)

PART #	LANGUAGE	AF ASSM PN	REV.
3860+	ENGLISH	AF3860OP+	B
3860G+	GERMAN	AF3860OPG+	B
3860F+	FRENCH	AF3860OPF+	B
3860J+	JAPANESE	AF3860OPJ+	C
3860I+	ITALIAN	AF3860OPI+	B
3860S+	SPANISH	AF3860OPS+	B
3860SW+	SWEDISH	AF3860OPSW+	B
3860CH+	CHINESE	AF3860OPCH+	A

***1120 PN CHART (LANGUAGE VERSIONS)

PART #	LANGUAGE	1120 PN	REV.
3860+	ENGLISH	1120	C
3860G+	GERMAN	1120G	A
3860F+	FRENCH	1120	C
3860J+	JAPANESE	1120J	A
3860I+	ITALIAN	1120I	A
3860S+	SPANISH	1120S	A
3860SW+	SWEDISH	1120SW	A
3860CH+	CHINESE	1120CH	A

NOTES:

1. APPLY GRAPHIC OVERLAY (ITEM 14) TO AF3860+* (ITEM 1)(NOTE: SEE AF ASSEMBLY CHART FOR CORRECT LANGUAGE VERSION) AS SHOWN BY REMOVING PROTECTIVE LAYER FROM MEMBRANE KEYPAD AND ALIGNING OVERLAY ONTO PART. (NOTE: USE LANGUAGE CHART PROVIDED FOR OVERLAY PN FOR EACH LANGUAGE OPTION).

2. PREPARE BOTTOM END CAP (ITEM 7) BY USING C SHAPED HANDLE CUTOUT PIECE FROM INSERT AND PUSHING THRU FOAM TO CREATE POCKET FOR POWER SUPPLY. PLACE AF3860+ ASSEMBLY (ITEM 1) INTO GUSSETED POLY BAG (ITEM 8) AND WRAP BAG AROUND UNIT FOR PROTECTION. PLACE UNIT IN CUTOUT OF BOTTOM END CAP AS SHOWN.

3. PLACE POWER SUPPLY (ITEM 2)(NOTE: SEE 1120* PN CHART FOR CORRECT LANGUAGE VERSION) INTO 8 X 8 POLY BAG (ITEM 20) AND WRAP AROUND SUPPLY FOR PROTECTION. PLACE SUPPY SECURELY INTO BOTTOM ENDCAP IN AREA FORMED BY C SHAPED CUTOUT.

4. REMOVE C SHAPED CUTOUT IN TOP ENDCAP AND DISCARD. PRESS TOP ENDCAP FIRMLY DOWN ONTO AF3860+ ASSEMBLY PREPARING IT FOR BOXING AS SHOWN IN VIEW TO RIGHT.

ITEM	PART NO.	QTY.	DESCRIPTION
23	LB2041	2	LABEL, 3860 OUTER BOX NUMERIC
22	LB2039	1	LABEL, Li-ION BATTERY CAUTION, SHIPPER
21	LB2036	1	LABEL, OVERLAY, MASIMO LOGO 3860+
20	M034	3	BAG, POLY, RECLOSE, 8 X 8 X 0.002 S-1699
19	LB2030	1	LABEL, 2.25 X 1.25, ROLL, 4-PACK
18	LB2029	1	LABEL, 2 X 4, EZ-LATCH ENABLED, SHIPPER
17	1125	1	SERVICE MANUAL CD
16	IVP1096*	1	OVERLAY (SEE CHART FOR LANGUAGE VERSION)
15	1139	1	ABBRV INSTRUCT CARDS, 3860 MR IV PUMP
14	HE13	1	ANTENNA. 2.4 GHz, RA, ANT-2.4-CW-RCL-ND
13	M022	1	BAG, POLY 3 X 5, 4MIL, RECLOSABLE
12	IVP1056	1	IV SET, STERILE DISP, W/ DRIP CHAMBER
11	LB2019	1	LABEL, 2 X 4, CE REGISTER MARK, SHIPPER
10	LB2016	2	LABEL, 1.5 X 1.0, ROLL, 4-PACK
9	M009	1	BAG, POLY, 9 X 12
8	M008	1	BAG, POLY, 8 X 10 X 24 X 0.002 GUSSETED
7	M005	1	PACKAGING, END CAP, PAIR, 3850
6	M004	1	BOX, 14 X 14 X 14 175 LB, WHT., 3850
5	1138****	1	OP MANUAL (SEE CHART FOR LANGUAGE VERSION)
4	1122	1	CABLE, DC CHARGER, 10 FT., MR IV PUMP
3	1121	1	AC POWER CORD, HOSPITAL GRADE, 3.0 FT.
2	1120***	1	EXTERNAL DC POWER/CHARGER, MR IV PUMP
1	AF3860+**	1	ASSEM, 3860 PUMP + H_FLO, MASIMO Sp02

Rev.	Description	Date
C	ECN 000380	23JUN11
B	ECN 000368	28FEB11
A	ECN 000227	19MAY09

Revision History

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Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Third Angle Projection

Drawn: JRN Date: 19MAY09
Eng.: RES Date: 23JUN11
Q.A.: FXC Date: 23JUN11
M.A.: FXC Date: 23JUN11
Mfg.: TWF Date: 23JUN11

Do NOT scale this drawing !

Iradimed Corporation

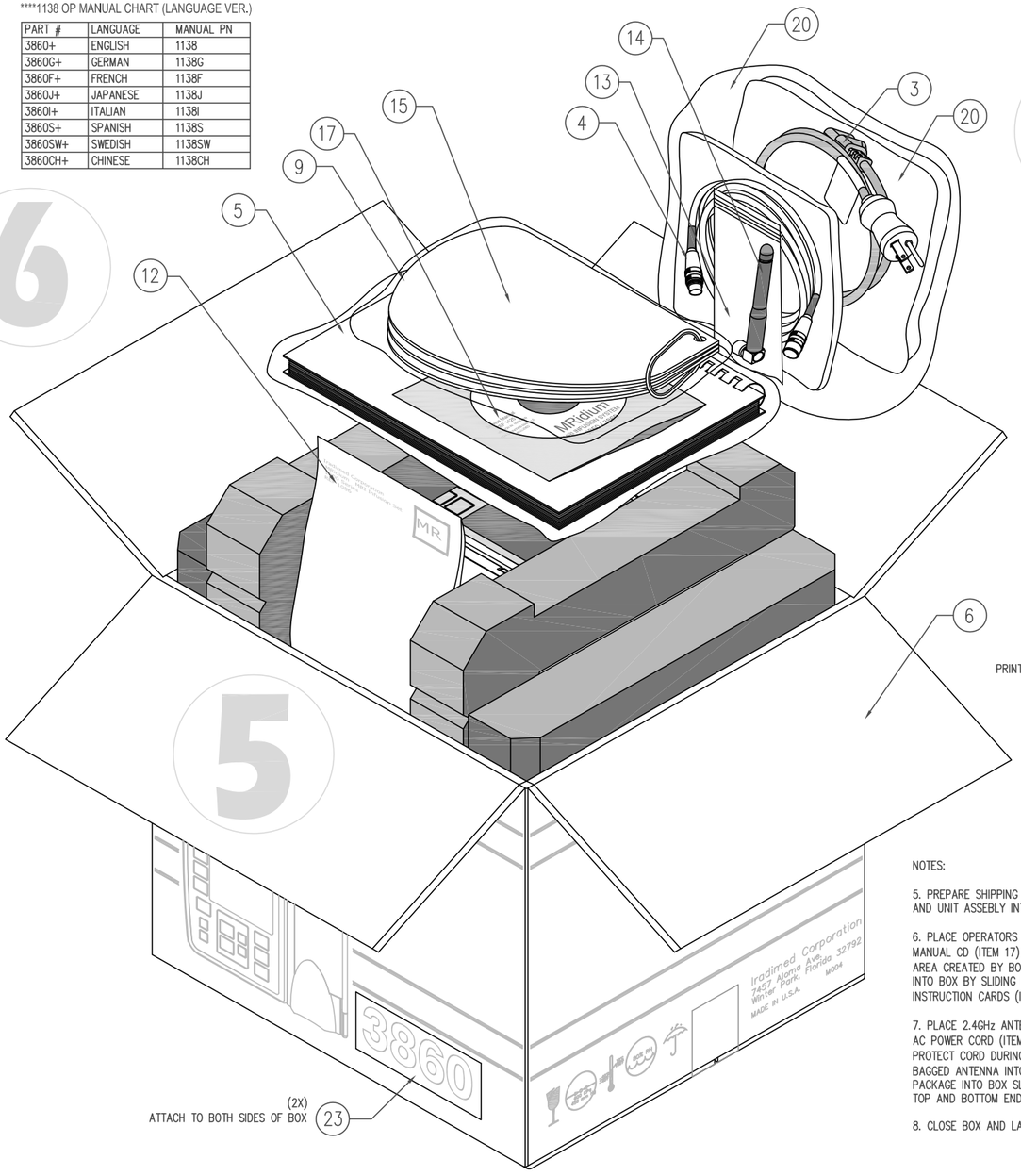
Title: PACKING ASSEMBLY MRIDIUM 3860+
Size: D
Part/Dwg. No: 3860+
Rev: C
Cad. Scale: NA
Sheet 1 of 2

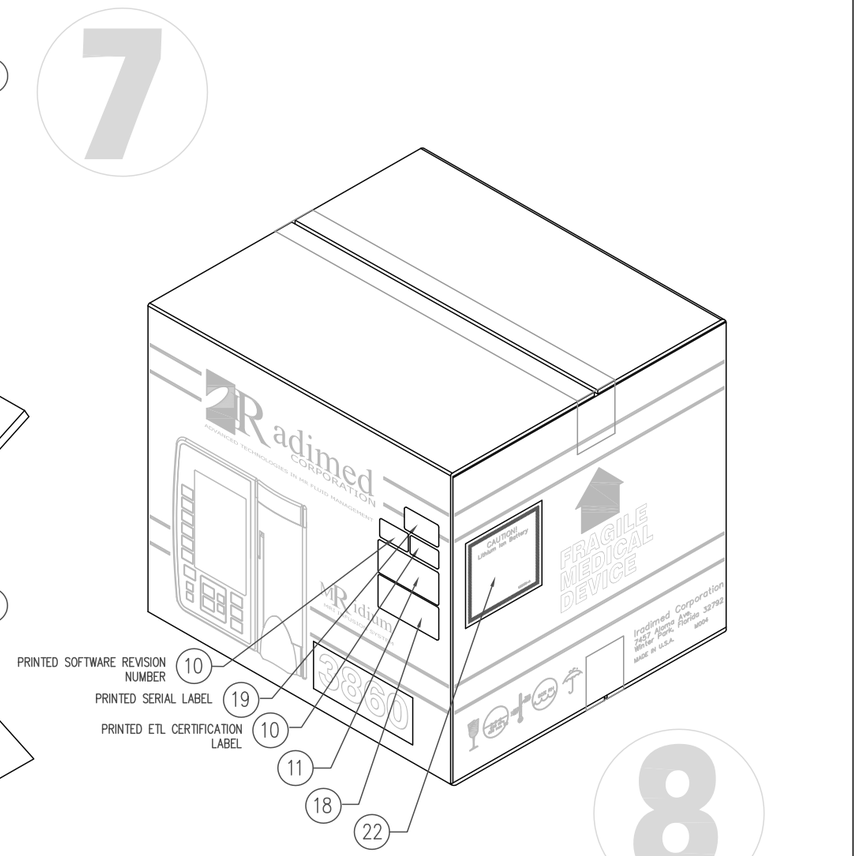
LF21 Rev. A

Figure 5-81. 3860+ Final Packing Sheet 1 of 2

****1138 OP MANUAL CHART (LANGUAGE VER.)

PART #	LANGUAGE	MANUAL PN
3860+	ENGLISH	1138
3860G+	GERMAN	1138G
3860F+	FRENCH	1138F
3860J+	JAPANESE	1138J
3860I+	ITALIAN	1138I
3860S+	SPANISH	1138S
3860SW+	SWEDISH	1138SW
3860CH+	CHINESE	1138CH





NOTES:

5. PREPARE SHIPPING BOX (ITEM 6) BY TAPING THE BOTTOM. ROTATE AND PLACE ENDCAP AND UNIT ASSEBLY INTO BOX AS SHOWN WITH DISPLAY FACING UP.

6. PLACE OPERATORS MANUAL (ITEM 5 SEE CHART FOR LANGUAGE VERSIONS) AND SERVICE MANUAL CD (ITEM 17) INTO 9 X 12 POLY BAG (ITEM 9) AS SHOWN AND INSERT INTO CUTOUT AREA CREATED BY BOTH ENDCAPS ABOVE DISPLAY. PACK SINGLE IV SET IVP1056 (ITEM 12) INTO BOX BY SLIDING DOWN SIDE AS SHOWN BETWEEN BOX WALL AND AF3860+. PLACE 1127 INSTRUCTION CARDS (ITEM 15) ON TOP OF MANUAL.

7. PLACE 2.4GHz ANTENNA (ITEM 14) INTO SMALL RECLOSABLE POLY BAG (ITEM 13). PLACE AC POWER CORD (ITEM 3) INTO 8 X 8 RECLOSABLE POLY BAG (ITEM 20) AND WRAP TO PROTECT CORD DURING SHIPPING. PACK DC CHARGER CORD (ITEM 2), BAGGED AC CORD AND BAGGED ANTENNA INTO 8 X 8 RECLOSABLE POLY BAG (ITEM 20). INSERT ENTIRE CORD PACKAGE INTO BOX SLIDING ALONG AF3860+ ASSEMBLY AND BOX SIDE WALL BETWEEN THE TOP AND BOTTOM ENDCAPS.

8. CLOSE BOX AND LABEL WITH APPROPRIATE SHIPPING, SERIAL AND CERTIFICATION LABELS.

ITEM	PART NO.	QTY.	DESCRIPTION
			Tolerances unless otherwise noted on dwg.: .XX = ± .02 .XXX = ± .010 ∠ = ± 2°
			Drawn: JRN Date: 19MAY09
			Eng.: RES Date: 23JUN11
			Q.A.: FXC Date: 23JUN11
			R.A.: FXC Date: 23JUN11
			Mfg.: TWF Date: 23JUN11
	SEE SHEET 1		Do NOT scale this drawing !

Iradimed Corporation

Title: PACKING ASSEMBLY MRIDIUM 3860+ | Size: D

Part/Dwg. No: 3860+ | Rev: C

Cad. Scale: NA | Sheet 2 of 2

Rev.	Description	Date
	Revision History	

Third Angle Projection

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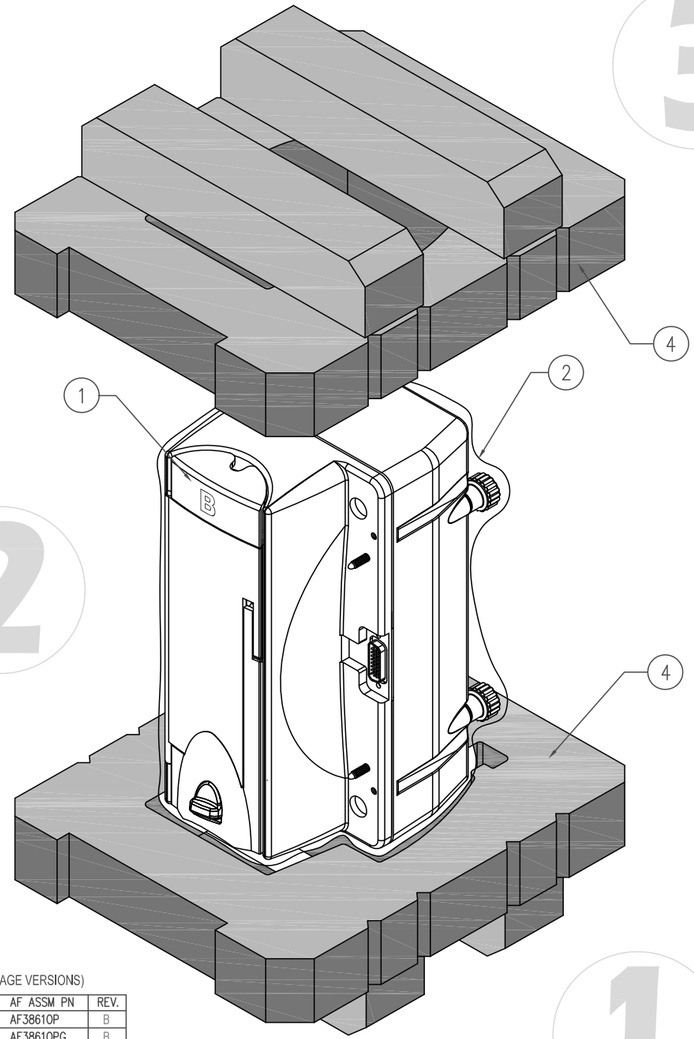
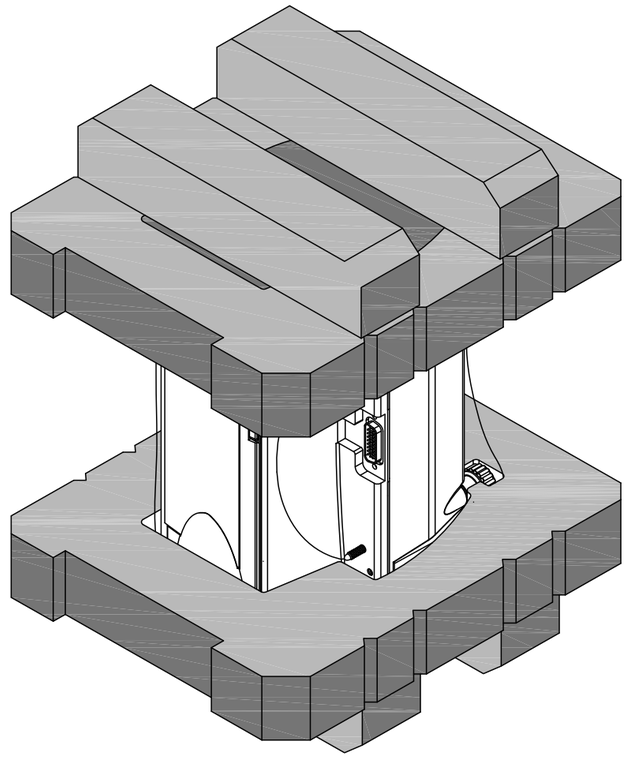
LF21 Rev. A

Figure 5-82. 3860+ Final Packing Sheet 2 of 2





*AF ASSM PN CHART (LANGUAGE VERSIONS)

PART #	LANGUAGE	AF ASSM PN	REV.
3861	ENGLISH	AF3861OP	B
3861G	GERMAN	AF3861OPG	B
3861F	FRENCH	AF3861OPF	B
3861J	JAPANESE	AF3861OPJ	B
3861I	ITALIAN	AF3861OPI	B
3861S	SPANISH	AF3861OPS	B
3861CH	CHINESE	AF3861OPCH	B

NOTES:

1. PREPARE BOTTOM END CAP (ITEM 4) BY REMOVING FOAM MATERIAL FROM THE CENTER OF THE CAP THAT IS SHAPED LIKE THE AF3861 ASSEMBLY. DISCARD REMOVED FOAM MATERIAL.

2. PLACE AF3861 ASSEMBLY (ITEM 1) INTO GUSSETED POLY BAG (ITEM 2) AND WRAP BAG AROUND UNIT FOR PROTECTION. PLACE UNIT IN CUTOUT OF BOTTOM END CAP AS SHOWN, PUSHING DOWN TILL ASSEMBLY IS SECURELY IN PLACE.

3. REMOVE FOAM MATERIAL FROM CENTER OF TOP END CAP THAT IS SHAPED LIKE AF3861 ASSEMBLY. DISCARD REMOVED FOAM MATERIAL. PRESS TOP CAP INTO PLACE ON AF3861 ASSEMBLY UNTIL SECURE (AS SHOWN IN VIEW TO RIGHT).

ITEM	PART NO.	QTY.	DESCRIPTION
11	LB2042	2	LABEL, 3861_3865 OUTER BOX NUMERIC
11	LB2030	1	LABEL, 2.25 X 1.25, ROLL, 4-PACK
10	LB2029	1	LABEL, 2 X 4, EZ-LATCH ENABLED, SHIPPER
9	M009	1	BAG, POLY, 9 X 12 X 0.002 S-956
8	1131	1	INSTALLATION GUIDE, 3861 SIDECAR PUMP
7	LB2019	1	LABEL, 2 X 4, CE REGISTER MARK, SHIPPER
6	LB2016	1	LABEL, 1.5 X 1.0, ROLL, 4-PACK
5	IVP1056	1	IV SET, STERILE DISP, W/ DRIP CHAMBER
4	M016	1	PACKAGING, END CAPS, PAIR, 3851/3855
3	M015	1	BOX, 14 X 10 X 12, 175LB WHT, 3851/3855
2	M008	1	BAG, POLY, 8 X 10 X 24 X 0.002 GUSSETED
1	AF3861*	1	ASSEMBLY, 3861 MR IV PUMP, SIDE CAR

Rev.	Description	Date
C	ECN 000380	23JUN11
B	ECN 000368	28FEB11
A	ECN 000227	19MAY09

Revision History

Tolerances unless otherwise noted on dec.: .XX = ± .02, .XXX = ± .005, ∠ = ± 2°

Drawn: JRN Date: 19MAY09
Eng.: GRB Date: 23JUN11
Q.A.: FXC Date: 23JUN11
R.A.: FXC Date: 23JUN11
Mfg.: TWF Date: 23JUN11

Do NOT scale this drawing !

Third Angle Projection

Iradimed Corporation

Title: PACKING ASSEMBLY MRIDIUM 3861

Size: D

Part/Dwg. No: 3861

Rev: C

Cad. Scale: NA

Sheet 1 of 2

LF21 Rev. A

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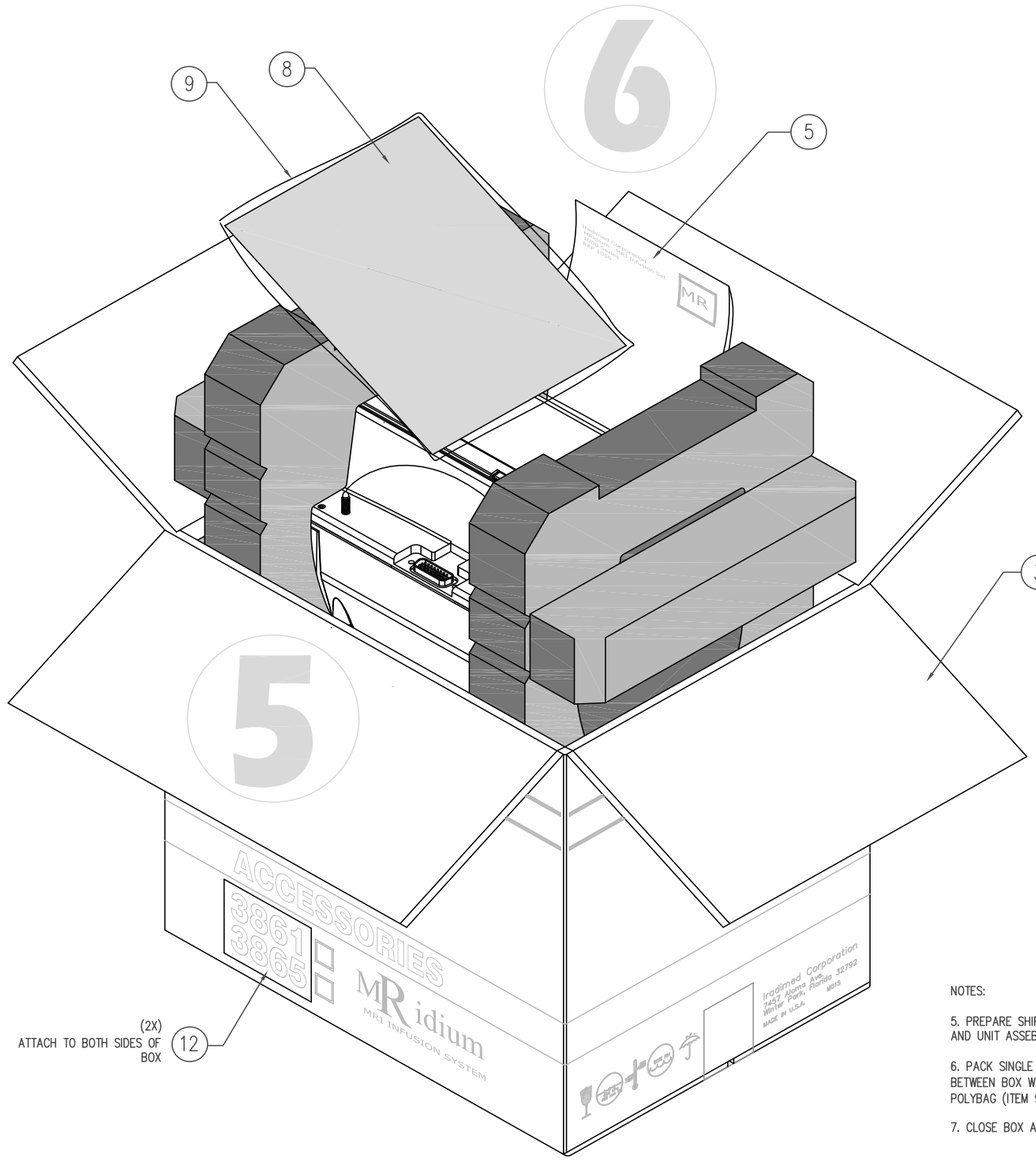
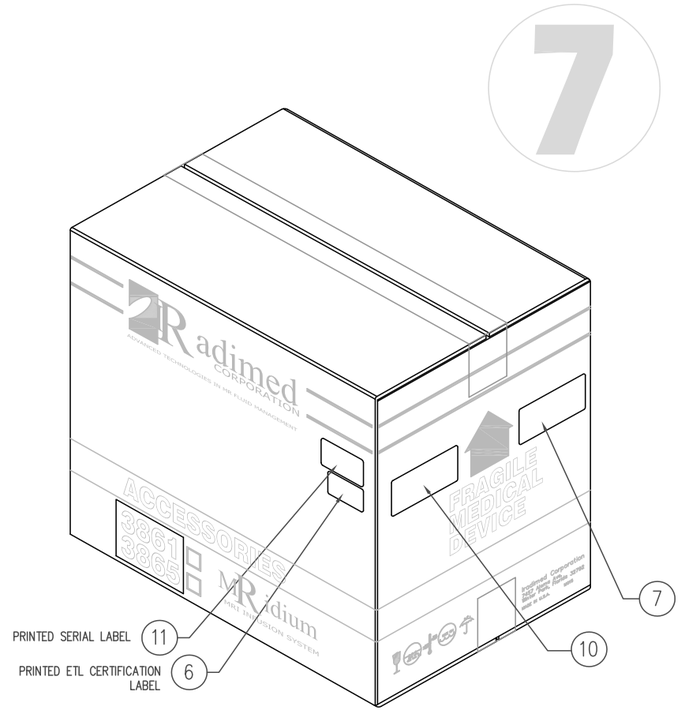
Figure 5-83. 3861 Final Packing Sheet 1 of 2





NOTES:

5. PREPARE SHIPPING BOX (ITEM 3) BY TAPING THE BOTTOM. ROTATE AND PLACE ENDCAP AND UNIT ASSEBLY INTO BOX AS SHOWN WITH FRONT OF AF3861 ASSEMBLY FACING UP.

6. PACK SINGLE IV SET IVP1056 (ITEM 5) INTO BOX BY SLIDING DOWN SIDE AS SHOWN BETWEEN BOX WALL AND AF3861 ASSEMBLY. PLACE INSTALLATION GUIDE (ITEM 8) INTO POLYBAG (ITEM 9) AND PLACE ON TOP OF ASSEMBLY AS SHOWN.

7. CLOSE BOX AND LABEL WITH APPROPRIATE SHIPPING, SERIAL AND CERTIFICATION LABELS.

ITEM	PART NO.	QTY.	DESCRIPTION

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Iradimed Corporation

Drawn:	JRN	Date: 19MAY09	
Eng:	GRB	Date: 23JUN11	Title: PACKING ASSEMBLY MRIDIUM 3861
Q.A.:	FXC	Date: 23JUN11	Size: D
R.A.:	FXC	Date: 23JUN11	
Mfg.:	TWF	Date: 23JUN11	Part/Dwg. No: 3861
			Rev: C

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Third Angle Projection

Cad. Scale: NA | Sheet 2 of 2

Rev.	Description	Date
SEE SHEET 1		

Revision History

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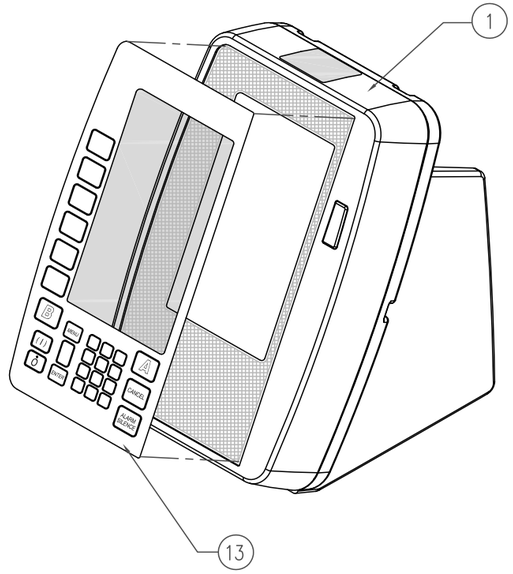
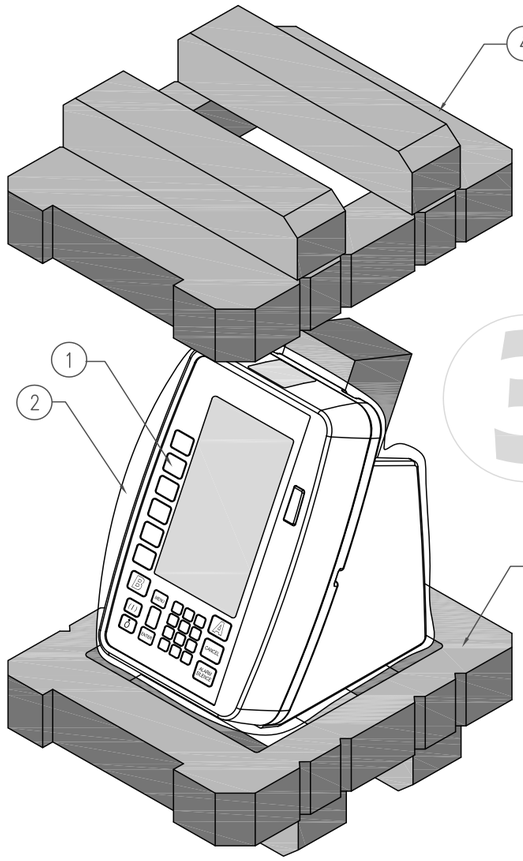
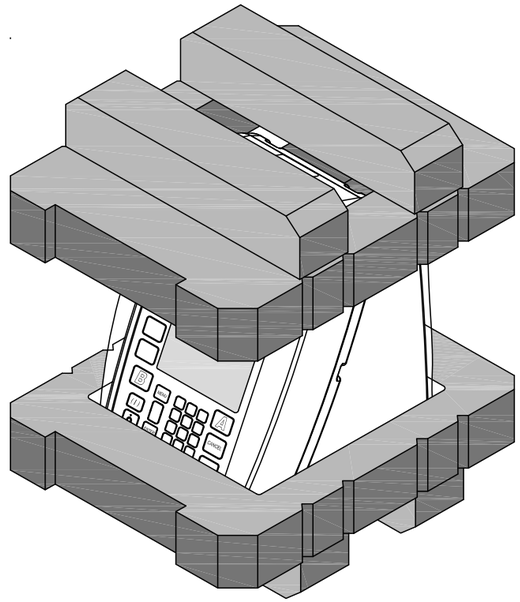
LF21 Rev. A

Figure 5-84. 3861 Final Packing Sheet 2 of 2







1

2

3

OVERLAY PN CHART (LANGUAGE VERSIONS)

PART #	LANGUAGE	OVERLAY PN	REV.
3865	ENGLISH	IVP1096	A
3865G	GERMAN	IVP1096G	A
3865F	FRENCH	IVP1096F	A
3865J	JAPANESE	IVP1096J	A
3865I	ITALIAN	IVP1096	A
3865S	SPANISH	IVP1096	A
3865SW	SWEDISH	IVP1096	A
3865CH	CHINESE	IVP1096	A

*AF ASSM PN CHART (LANGUAGE VERSIONS)

PART #	LANGUAGE	AF ASSM PN	REV.
3865	ENGLISH	AF3865	B
3865G	GERMAN	AF3865G	B
3865F	FRENCH	AF3865F	B
3865J	JAPANESE	AF3865J	B
3865I	ITALIAN	AF3865I	B
3865S	SPANISH	AF3865S	B
3865SW	SWEDISH	AF3865SW	B
3865CH	CHINESE	AF3865CH	B

NOTES:

1. APPLY GRAPHIC OVERLAY (ITEM 13) TO AF3865 (ITEM 1) AS SHOWN BY REMOVING PROTECTIVE LAYER FROM MEMBRANE KEYPAD AND ALIGNING OVERLAY ONTO PART. (NOTE: USE LANGUAGE CHART PROVIDED FOR OVERLAY PN FOR EACH LANGUAGE OPTION).

2. PREPARE BOTTOM END CAP (ITEM 4) BY REMOVING FOAM MATERIAL FROM THE CENTER OF THE CAP THAT IS SHAPED LIKE THE BOTTOM OF THE AF3865 ASSEMBLY. DISCARD REMOVED FOAM MATERIAL. PLACE AF3865* ASSEMBLY (ITEM 1)(NOTE: SEE AF ASSEMBLY CHART FOR CORRECT LANGUAGE VERSION) INTO GUSSETED POLY BAG (ITEM 2) AND WRAP BAG AROUND UNIT FOR PROTECTION. PLACE UNIT IN CUTOUT OF BOTTOM END CAP AS SHOWN, PUSHING DOWN TILL ASSEMBLY IS SECURELY IN PLACE.

3. REMOVE SMALLER RECTANGULAR SECTION OF FOAM MATERIAL FROM CENTER OF TOP END CAP THAT IS AT BOTTOM SIDE OF CAP. USE REMOVED FOAM MATERIAL IN BATTERY COMPARTMENT AREA OF AF3865 ASSEMBLY. PRESS TOP CAP INTO PLACE ON AF3865 ASSEMBLY UNTIL SECURE (AS SHOWN IN VIEW TO RIGHT).

ITEM	PART NO.	QTY.	DESCRIPTION
16	LB2042	2	LABEL, 3861_3865 OUTER BOX NUMERIC
15	M034	2	BAG, POLY, RECLOSE, 8 X 8 X 0.002 S-1699
14	LB2030	1	LABEL, 2.25 X 1.25, ROLL, 4-PACK
13	IVP1096	1	OVERLAY (SEE CHART FOR LANGUAGE VERSION)
12	LB2025	1	LABEL, SHEET, CHANNEL ID MARKERS 1-6
11	1132	1	INST. GUIDE (SEE CHART FOR LANGUAGE VERSION)
10	LB2019	1	LABEL, 2 X 4, ALPA CE MARK, SHIPPER
9	LB2016	2	LABEL, 2.0 X 1.0, ROLL, 4-PACK
8	M009	1	BAG, POLY 9 X 12
7	1128	1	AC POWER CORD, 3.05M, HOSPITAL GRADE
6	M022	1	BAG, POLY 3 X 5, 4 MIL, RECLOSABLE
5	HE13	1	ANTENNA, 2.4 GHz, RA, ANT-2.4-CW-ND
4	M016	1	PACKAGING, END CAPS, PAIR, 3851/3855
3	M015	1	BOX, 14 X 10 X 12, 175LB WHT, 3851/3855
2	M008	1	BAG, POLY, 8 X 10 X 24 X 0.002 GUSSETED
1	AF3865*	1	ASSEMBLY, 3865 MR IV PUMP REMOTE CONTROL

Rev.	Description	Date
C	ECN 000374	06JAN11
B	ECN 000368	06JAN11
A	ECN 000227	19MAY09

Revision History

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Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Third Angle Projection

Iradimed Corporation

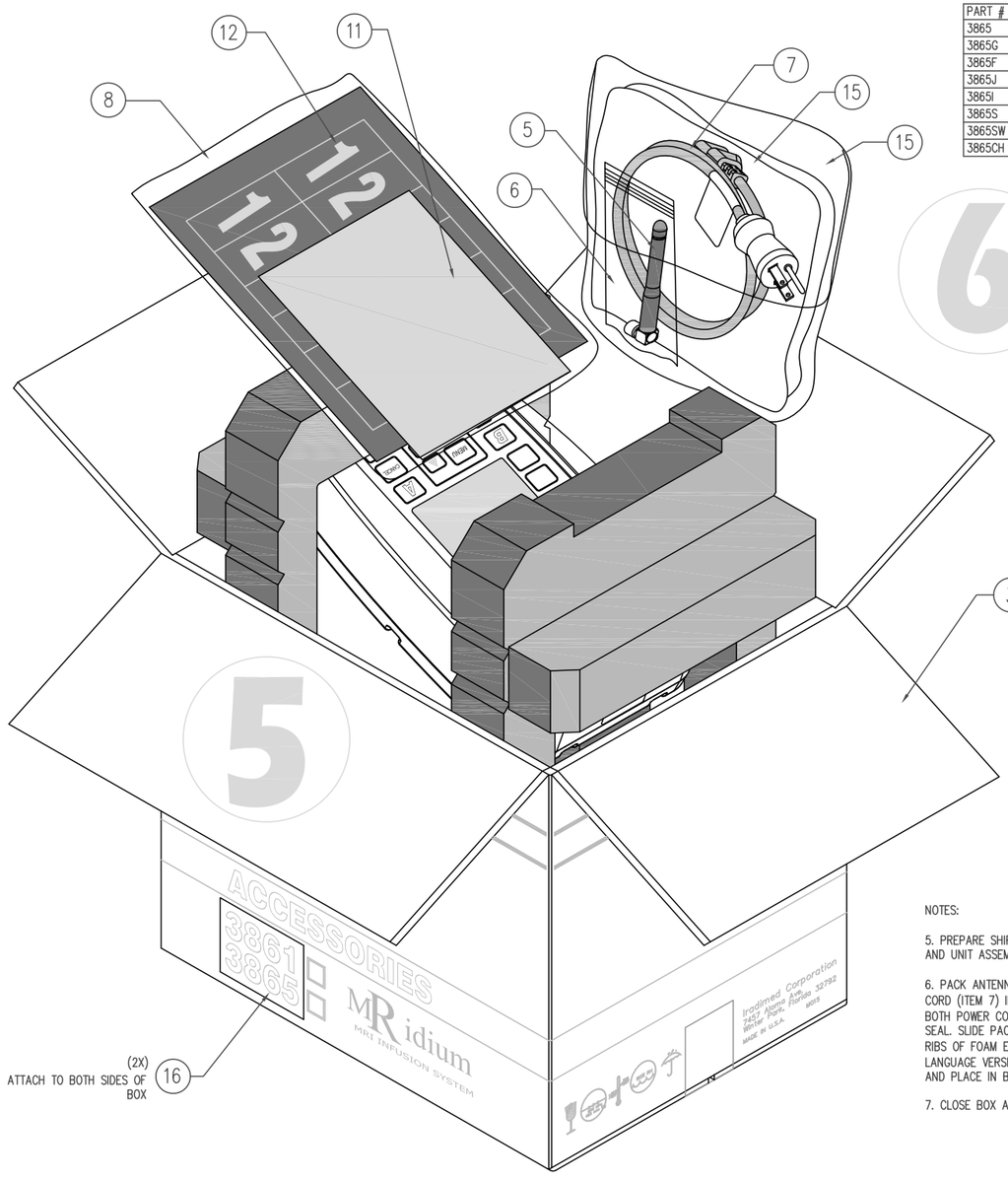
Drawn: JRN	Date: 19MAY09	
Eng.: RES	Date: 31MAR11	Title: PACKING ASSEMBLY MRIDIUM 3865
Q.A.: FXC	Date: 31MAR11	Size: D
R.A.: FXC	Date: 31MAR11	
Mfg.: TMF	Date: 31MAR11	Part/Dwg. No: 3865
Do NOT scale this drawing !		Rev: C
Cad. Scale: NA		Sheet 1 of 2

LF21 Rev. A

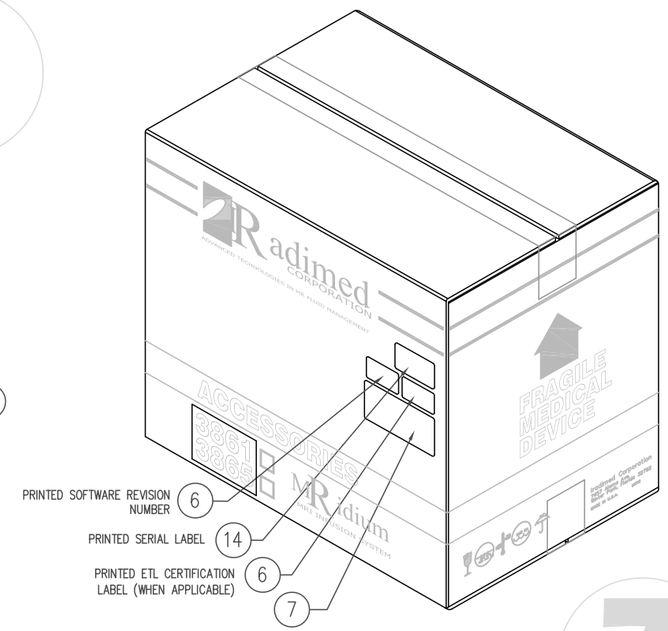
Figure 5-85. 3865 Final Packing Sheet 1 of 2

1129 INSTALL GUIDE (LANGUAGE VERSIONS)

PART #	LANGUAGE	MANUAL PN
3865	ENGLISH	1132
3865G	GERMAN	1132G
3865F	FRENCH	1132
3865J	JAPANESE	1132
3865I	ITALIAN	1132
3865S	SPANISH	1132S
3865SW	SWEDISH	1132
3865CH	CHINESE	1132



5



6

7

NOTES:

5. PREPARE SHIPPING BOX (ITEM 3) BY TAPING THE BOTTOM. ROTATE AND PLACE ENDCAP AND UNIT ASSEMBLY INTO BOX AS SHOWN WITH FRONT OF AF3865 ASSEMBLY FACING UP.

6. PACK ANTENNA (ITEM 5) INTO 3 X 5 RECLOSABLE POLY BAG (ITEM 6). PACK AC POWER CORD (ITEM 7) INTO 8 X 8 RECLOSABLE POLY BAG (ITEM 15) AND WRAP CLOSED. PLACE BOTH POWER CORD AND ANTENNA BAGS INTO 8 X 8 RECLOSABLE POLY BAG (ITEM 15) AND SEAL. SLIDE PACKED BAG INTO BOX BETWEEN BOX SIDE AND AF3865 ASSEMBLY BETWEEN RIBS OF FOAM ENDCAPS. PLACE 1132 INSTALLATION GUIDE (ITEM 11 SEE CHART FOR LANGUAGE VERSIONS) AND LB2025 LABEL SHEET (ITEM 12) IN 9 X 12 POLY BAG (ITEM 8) AND PLACE IN BOX BEFORE SEALING.

7. CLOSE BOX AND LABEL WITH APPROPRIATE SHIPPING, SERIAL AND CERTIFICATION LABELS.

ITEM	PART NO.	QTY.	DESCRIPTION
			Tolerances unless otherwise noted on dwg.: XX = ± .02 XXX = ± .010 ∠ = ± 2°
			Drawn: JRN Date: 19MAY09
			Eng.: RES Date: 31MAR11
			Q.A.: FXC Date: 31MAR11
			R.A.: FXC Date: 31MAR11
			Mfg.: TWF Date: 31MAR11
	SEE SHEET 1		Do NOT scale this drawing !

Iradimed Corporation

Title: PACKING ASSEMBLY MRIDIUM 3865 — Size: D

Part/Dwg. No: 3865 — Rev: C

Cod. Scale: NA — Sheet 2 of 2

Third Angle Projection

Rev.	Description	Date
Revision History		

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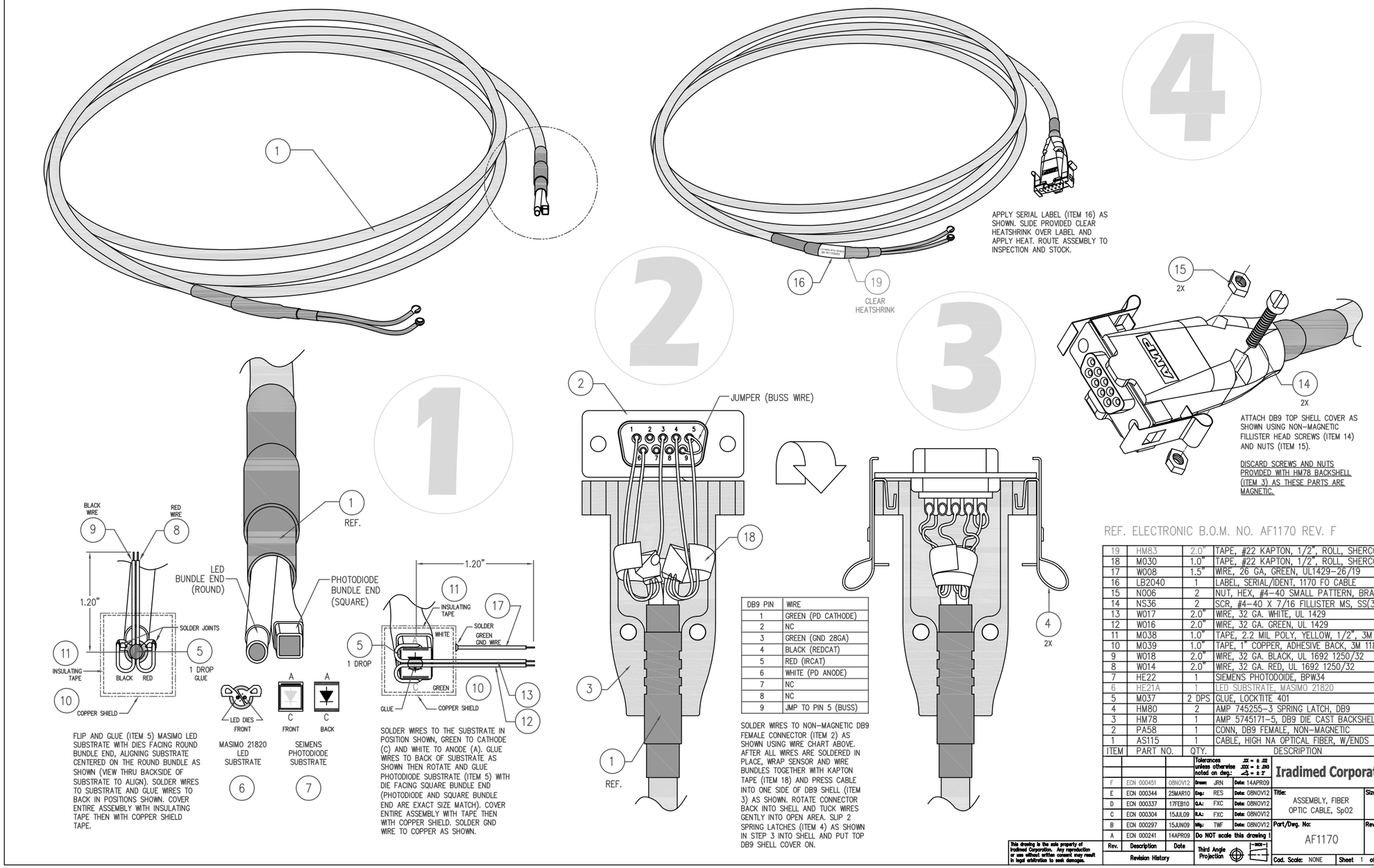
LF21 Rev. A

Figure 5-86. 3865 Final Packing Sheet 2 of 2


1
REF.
BLACK WIRE
RED WIRE
9
8
1.20"
SOLDER JOINTS
11
INSULATING TAPE
5
1 DROP GLUE
BLACK
RED
10
COPPER SHIELD
LED BUNDLE END (ROUND)
PHOTODIODE BUNDLE END (SQUARE)
LED DIES FRONT
A
C
FRONT
A
C
BACK
MASIMO 21820 LED SUBSTRATE
6
SIEMENS PHOTODIODE SUBSTRATE
7
FLIP AND GLUE (ITEM 5) MASIMO LED SUBSTRATE WITH DIES FACING ROUND BUNDLE END, ALIGNING SUBSTRATE CENTERED ON THE ROUND BUNDLE AS SHOWN (VIEW THRU BACKSIDE OF SUBSTRATE TO ALIGN). SOLDER WIRES TO SUBSTRATE AND GLUE WIRES TO BACK IN POSITIONS SHOWN. COVER ENTIRE ASSEMBLY WITH INSULATING TAPE THEN WITH COPPER SHIELD TAPE.
1.20"
11
INSULATING TAPE
17
SOLDER
WHITE
GREEN GND WIRE
5
1 DROP
A
C
GREEN
10
13
GLUE
COPPER SHIELD
12
SOLDER WIRES TO THE SUBSTRATE IN POSITION SHOWN, GREEN TO CATHODE (C) AND WHITE TO ANODE (A). GLUE WIRES TO BACK OF SUBSTRATE AS SHOWN THEN ROTATE AND GLUE PHOTODIODE SUBSTRATE (ITEM 5) WITH DIE FACING SQUARE BUNDLE END (PHOTODIODE AND SQUARE BUNDLE END ARE EXACT SIZE MATCH). COVER ENTIRE ASSEMBLY WITH TAPE THEN WITH COPPER SHIELD. SOLDER GND WIRE TO COPPER AS SHOWN.
2
JUMPER (BUSS WIRE)
1 2 3 4 5
6 7 8 9
18
3
1
REF.
DB9 PIN | WIRE
1 | GREEN (PD CATHODE)
2 | NC
3 | GREEN (GND 28GA)
4 | BLACK (REDCAT)
5 | RED (IRCAT)
6 | WHITE (PD ANODE)
7 | NC
8 | NC
9 | JMP TO PIN 5 (BUSS)
SOLDER WIRES TO NON-MAGNETIC DB9 FEMALE CONNECTOR (ITEM 2) AS SHOWN USING WIRE CHART ABOVE. AFTER ALL WIRES ARE SOLDERED IN PLACE, WRAP SENSOR AND WIRE BUNDLES TOGETHER WITH KAPTON TAPE (ITEM 18) AND PRESS CABLE INTO ONE SIDE OF DB9 SHELL (ITEM 3) AS SHOWN. ROTATE CONNECTOR BACK INTO SHELL AND TUCK WIRES GENTLY INTO OPEN AREA. SLIP 2 SPRING LATCHES (ITEM 4) AS SHOWN IN STEP 3 INTO SHELL AND PUT TOP DB9 SHELL COVER ON.
4
2X
4
APPLY SERIAL LABEL (ITEM 16) AS SHOWN. SLIDE PROVIDED CLEAR HEATSHRINK OVER LABEL AND APPLY HEAT. ROUTE ASSEMBLY TO INSPECTION AND STOCK.
16
19
CLEAR HEATSHRINK
15
2X
AMP
14
2X
ATTACH DB9 TOP SHELL COVER AS SHOWN USING NON-MAGNETIC FILLISTER HEAD SCREWS (ITEM 14) AND NUTS (ITEM 15).
DISCARD SCREWS AND NUTS PROVIDED WITH HM78 BACKSHELL (ITEM 3) AS THESE PARTS ARE MAGNETIC.
REF. ELECTRONIC B.O.M. NO. AF1170 REV. F
ITEM | PART NO. | QTY. | DESCRIPTION
19 | HM83 | 2.0" | TAPE, #22 KAPTON, 1/2", ROLL, SHERCON
18 | M030 | 1.0" | TAPE, #22 KAPTON, 1/2", ROLL, SHERCON
17 | W008 | 1.5" | WIRE, 26 GA, GREEN, UL1429-26/19
16 | LB2040 | 1 | LABEL, SERIAL/IDENT, 1170 FO CABLE
15 | N006 | 2 | NUT, HEX, #4-40 SMALL PATTERN, BRASS
14 | NS36 | 2 | SCR, #4-40 X 7/16 FILLISTER MS, SS(316)
13 | W017 | 2.0" | WIRE, 32 GA. WHITE, UL 1429
12 | W016 | 2.0" | WIRE, 32 GA. GREEN, UL 1429
11 | M038 | 1.0" | TAPE, 2.2 MIL POLY, YELLOW, 1/2", 3M 56
10 | M039 | 1.0" | TAPE, 1" COPPER, ADHESIVE BACK, 3M 1181
9 | W018 | 2.0" | WIRE, 32 GA. BLACK, UL 1692 1250/32
8 | W014 | 2.0" | WIRE, 32 GA. RED, UL 1692 1250/32
7 | HE22 | 1 | SIEMENS PHOTODOIDE, BPW34
6 | HE21A | 1 | LED SUBSTRATE, MASIMO 21820
5 | M037 | 2 DPS | GLUE, LOCKTITE 401
4 | HM80 | 2 | AMP 745255-3 SPRING LATCH, DB9
3 | HM78 | 1 | AMP 5745171-5, DB9 DIE CAST BACKSHELL
2 | PA58 | 1 | CONN, DB9 FEMALE, NON-MAGNETIC
1 | AS115 | 1 | CABLE, HIGH NA OPTICAL FIBER, W/ENDS
Tolerances unless otherwise noted on dwg.: XX = ± .02, XXX = ± .010, ∠ = ± 2°
Iradimed Corporation
Drawn: JRN Date: 14APR09
Eng.: RES Date: 08NOV12
Q.A.: FXC Date: 08NOV12
M/g.: TWF Date: 08NOV12
Do NOT scale this drawing !
Third Angle Projection
Title: ASSEMBLY, FIBER OPTIC CABLE, Sp02
Size: D
Part/Dwg. No: AF1170
Rev: F
Cad. Scale: NONE
Sheet 1 of 1
Rev. | Description | Date | Revision History
F | ECN 000451 | 08NOV12
E | ECN 000344 | 25MAR10
D | ECN 000337 | 17FEB10
C | ECN 000304 | 15JUL09
B | ECN 000297 | 15JUN09
A | ECN 000241 | 14APR09
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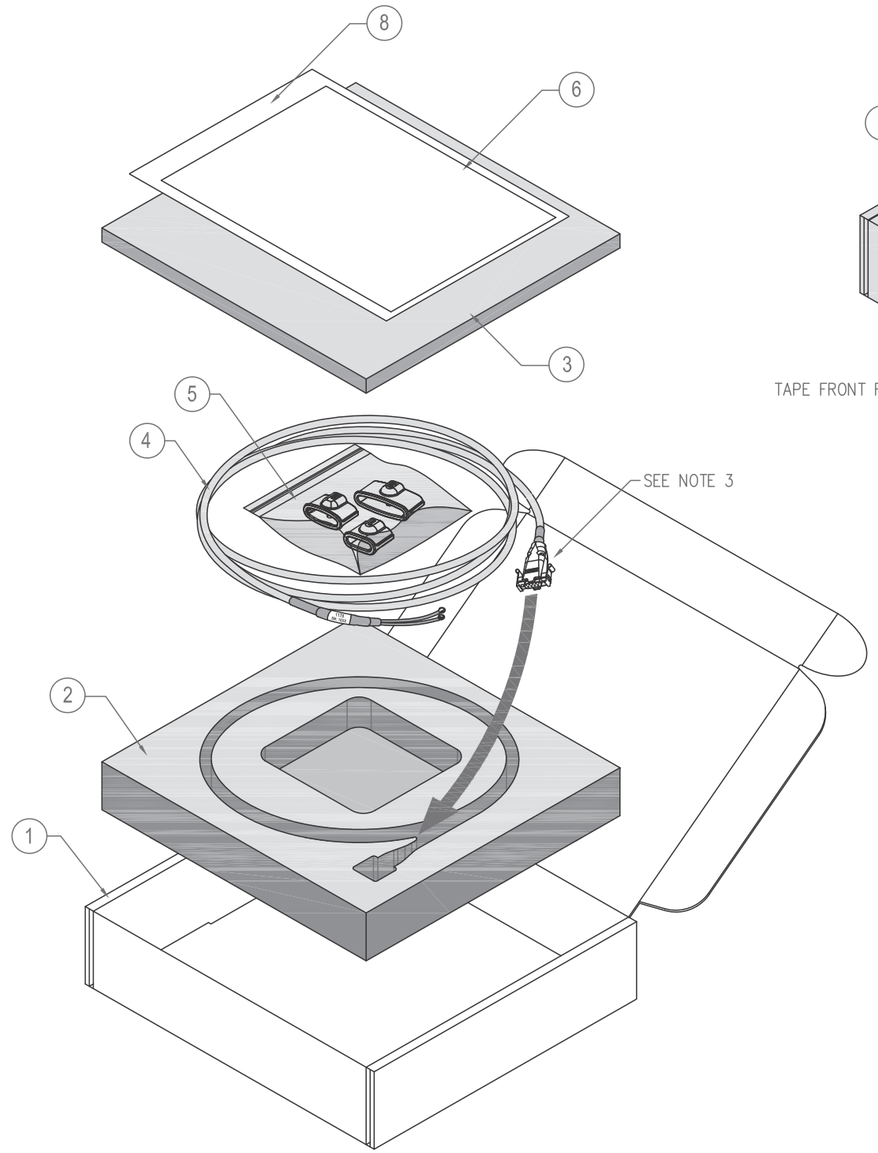
LF21 Rev. A

Figure 5-87. AF1170 Fiber Optic Cable Assembly



NOTES:

1. ASSEMBLE BOX (ITEM 1) FROM FLAT FOLDING UP SIDES TO CREATE TRAY.
2. PLACE FOAM INSERT (ITEM 2) INTO BOX AS SHOWN.
3. PLACE FIBER OPTIC CABLE ASSEMBLY (ITEM 4) INTO FOAM BY SECURING METAL CONNECTOR END INTO CUTOUT AND WINDING CABLE AROUND FOAM CIRCLE TILL ALL OF THE CABLE IS IN PLACE (BE SURE TO HANDLE CABLE WITH CARE AND AVOID BENDING CABLE SHARPLY AS THIS COULD RESULT IN BREAKING OF THE GLASS FIBERS).
4. PLACE 1171 GRIP KIT (ITEM 5) INTO SQUARE CUTOUT IN FOAM CIRCLE.
5. PLACE TOP FOAM PACKAGING (ITEM 3) INTO BOX COVERING CABLE ASSEMBLY.
6. PLACE INSTRUCTION CARD (ITEM 6) INTO POLY BAG (ITEM 8) AND PLACE ON TOP OF FOAM AND CLOSE BOX.
7. TAPE BOX SHUT AS SHOWN AND APPLY LABEL (ITEM 7) AS SHOWN ON TOP OF BOX.

REF. ELECTRONIC B.O.M. 1170 REV. A

ITEM	PART NO.	QTY.	DESCRIPTION
8	M009	1	BAG, POLY, 9 X 12 X 0.002 S-956
7	LB2038	1	LABEL, 1170 FIBER OPTIC CABLE KIT
6	1173	1	INSTRUCTION CARD, 1170 FO CABLE
5	1171	1	MRIDIUM SPO2 SENSOR GRIP KIT
4	AF1170	1	ASSEMBLY, FIBER OPTIC CABLE, SpO2
3	M040T	1	FOAM, TOP PACKING, .9 PE GREY, 1170 SPO2
2	M040B	1	FOAM, BTM PACKING, .9 PE GREY, 1170 SPO2
1	M040	1	BOX, 12 X 12 X 2 TAB LOCK, ULINE S-13279

Rev.	Description	Date
A	PER ECN 000241	11MAY09

Revision History

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

Drawn: JRN Date: 11MAY09
Eng.: RES Date: 11MAY09
Q.A.: FXC Date: 11MAY09
R.A.: FXC Date: 11MAY09
Mfg.: TWF Date: 11MAY09

Do NOT scale this drawing !

Third Angle Projection — INCH

Iradimed Corporation

Title: FIBER OPTIC Sp02 CABLE KIT
Size: C
Part/Dwg. No: 1170
Rev: A
Cad. Scale: NONE
Sheet 1 of 1

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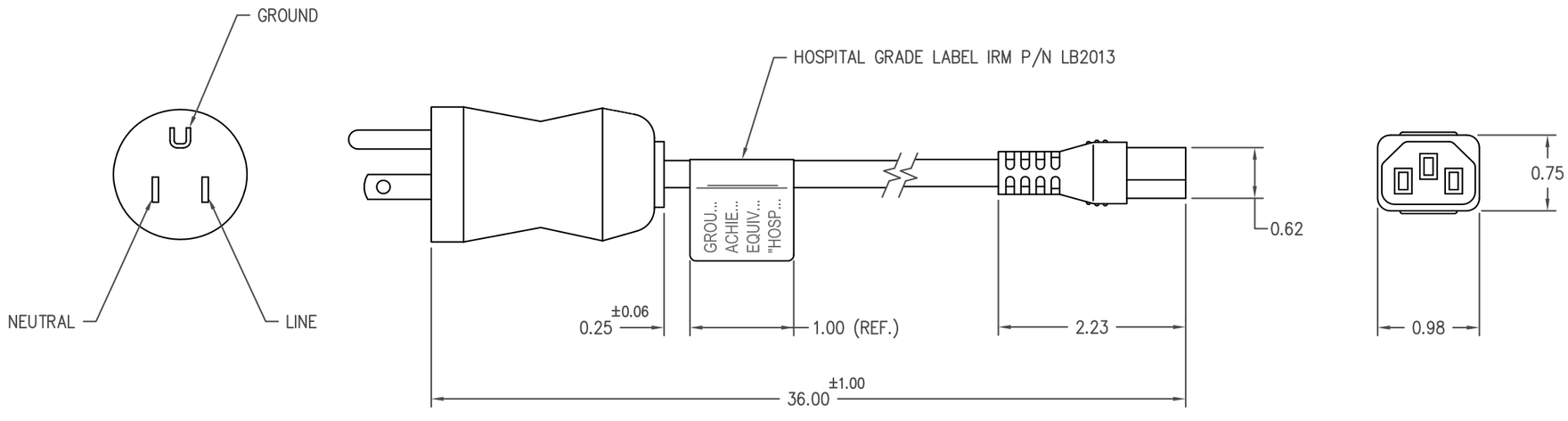
LF20 Rev. A

Figure 5-88. 1170 Fiber Optic Cable Kit



SPECIFICATIONS

PART NUMBER: 1121

CURRENT RATING: 10A

VOLTAGE RATING: 125VAC
LENGTH: 36.0" (3 FT)
TEMPERATURE RATING: 60°C
PLUG TYPE: NEMA 5-15
PLUG COLOR: CLEAR
CONNECTOR TYPE: IEC 60320 C13
CONNECTOR COLOR: GRAY
CABLE STYLE: NORTH AM.
CONDUCTOR SIZE: 18 AWG
PLUG APPROVALS: CSA UL

NUMBER OF CONDUCTORS: 3
CONDUCTOR COLOR CODE:
BROWN, BLUE, GREEN / YELLOW
CABLE TYPE: SJT
CABLE COLOR: GRAY
CABLE STANDARD: UL 62
APPROX. STRANDING: 16 / 30 GA.
APPROX. OUTER DIA.: .305" (7.8 mm)
CIRCULAR MIL. AREA: 1600
GENERAL MATERIAL: PVC
MEDICAL: YES
CE MARKING: NO
CONNECTOR APPROVALS: VDE CSA UL

RoHS

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Rev.	Description	Date
B	PER ECN 000251	20MAY08
A	PER ECN 000014	11NOV05
0	PROTOTYPE	11APR05

Revision History

Tolerances unless otherwise noted on dwg.: .XX = ± .02, .XXX = ± .010, ∠ = ± 2°

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R.A.: FXC Date: 20MAY08
Mfg.: TWF Date: 20MAY08

Do NOT scale this drawing !

Third Angle Projection — INCH

Iradimed Corporation

Title: AC POWER CORD, HOSP. GRADE, 3.0 FT.
Size: B
Part/Dwg. No: 1121
Rev: B
Cad. Scale: NONE
Sheet 1 of 1

ECN 000006

LF19 Rev. A

Figure 5-89. 1121 AC Power Cord (Hospital Grade)

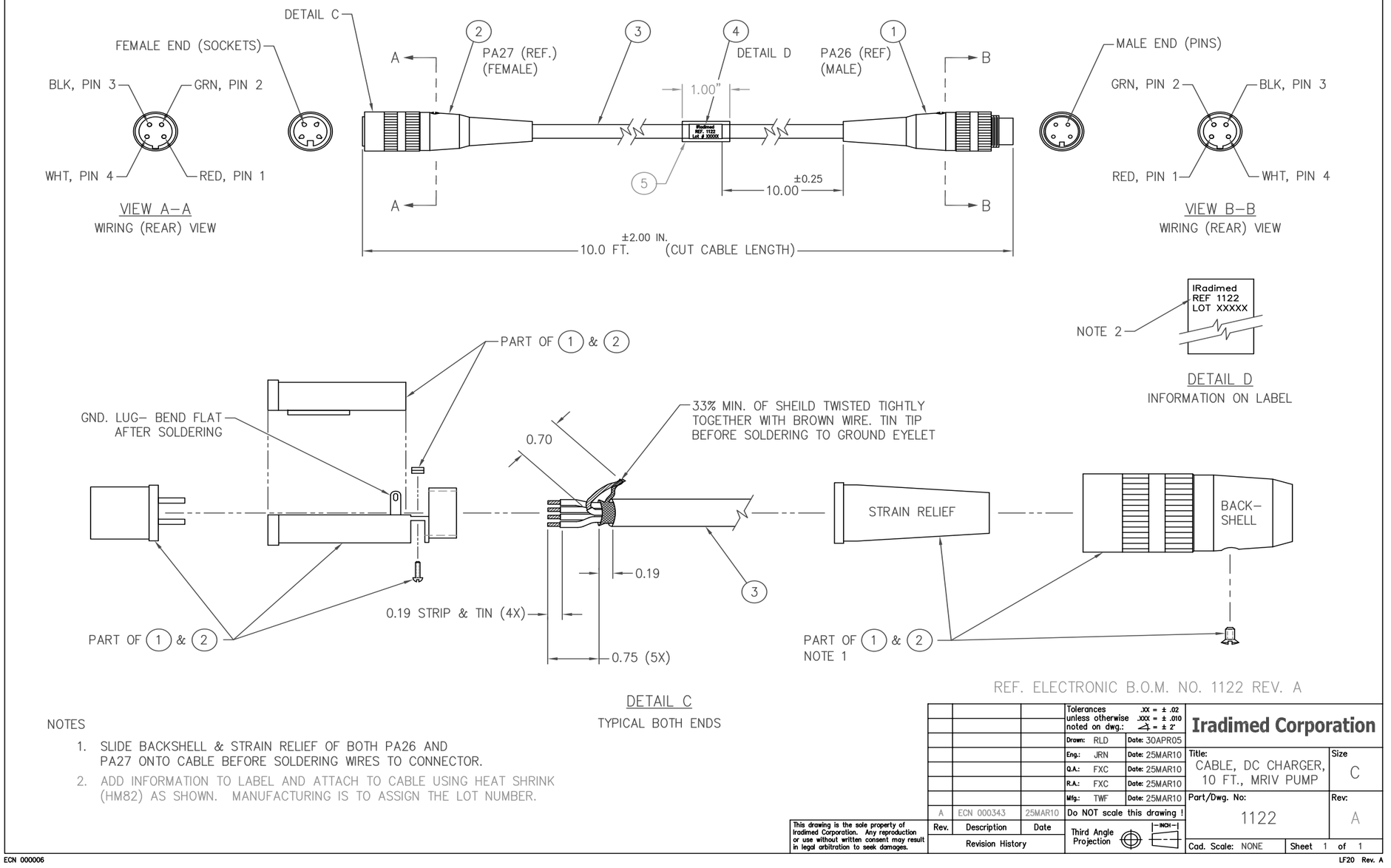
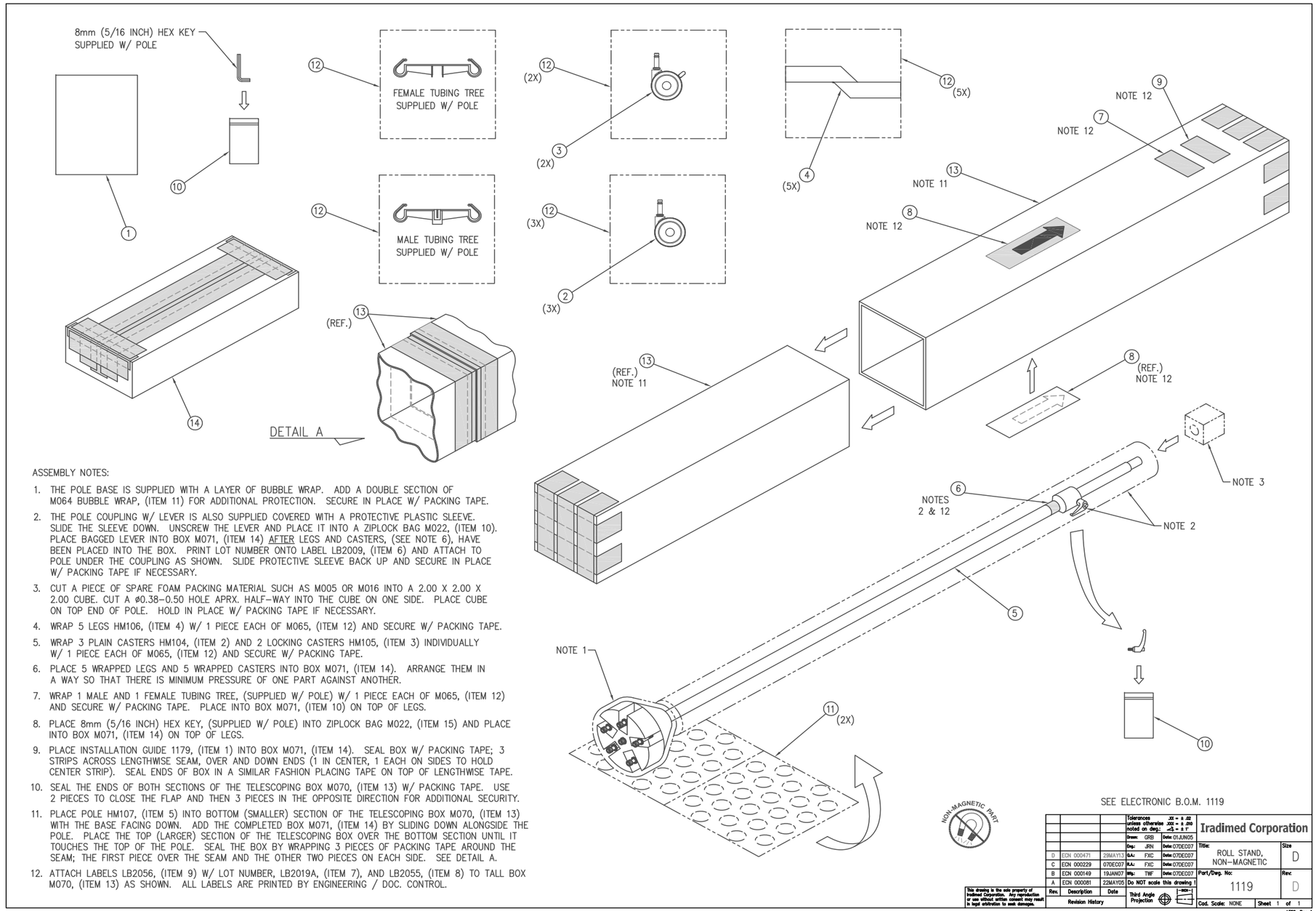


Figure 5-90. 1122 DC Charger Cable



ASSEMBLY NOTES:

1. THE POLE BASE IS SUPPLIED WITH A LAYER OF BUBBLE WRAP. ADD A DOUBLE SECTION OF M064 BUBBLE WRAP, (ITEM 11) FOR ADDITIONAL PROTECTION. SECURE IN PLACE W/ PACKING TAPE.
2. THE POLE COUPLING W/ LEVER IS ALSO SUPPLIED COVERED WITH A PROTECTIVE PLASTIC SLEEVE. SLIDE THE SLEEVE DOWN. UNSCREW THE LEVER AND PLACE IT INTO A ZIPLOCK BAG M022, (ITEM 10). PLACE BAGGED LEVER INTO BOX M071, (ITEM 14) AFTER LEGS AND CASTERS, (SEE NOTE 6), HAVE BEEN PLACED INTO THE BOX. PRINT LOT NUMBER ONTO LABEL LB2009, (ITEM 6) AND ATTACH TO POLE UNDER THE COUPLING AS SHOWN. SLIDE PROTECTIVE SLEEVE BACK UP AND SECURE IN PLACE W/ PACKING TAPE IF NECESSARY.
3. CUT A PIECE OF SPARE FOAM PACKING MATERIAL SUCH AS M005 OR M016 INTO A 2.00 X 2.00 X 2.00 CUBE. CUT A ø0.38–0.50 HOLE APRX. HALF–WAY INTO THE CUBE ON ONE SIDE. PLACE CUBE ON TOP END OF POLE. HOLD IN PLACE W/ PACKING TAPE IF NECESSARY.
4. WRAP 5 LEGS HM106, (ITEM 4) W/ 1 PIECE EACH OF M065, (ITEM 12) AND SECURE W/ PACKING TAPE.
5. WRAP 3 PLAIN CASTERS HM104, (ITEM 2) AND 2 LOCKING CASTERS HM105, (ITEM 3) INDIVIDUALLY W/ 1 PIECE EACH OF M065, (ITEM 12) AND SECURE W/ PACKING TAPE.
6. PLACE 5 WRAPPED LEGS AND 5 WRAPPED CASTERS INTO BOX M071, (ITEM 14). ARRANGE THEM IN A WAY SO THAT THERE IS MINIMUM PRESSURE OF ONE PART AGAINST ANOTHER.
7. WRAP 1 MALE AND 1 FEMALE TUBING TREE, (SUPPLIED W/ POLE) W/ 1 PIECE EACH OF M065, (ITEM 12) AND SECURE W/ PACKING TAPE. PLACE INTO BOX M071, (ITEM 10) ON TOP OF LEGS.
8. PLACE 8mm (5/16 INCH) HEX KEY, (SUPPLIED W/ POLE) INTO ZIPLOCK BAG M022, (ITEM 15) AND PLACE INTO BOX M071, (ITEM 14) ON TOP OF LEGS.
9. PLACE INSTALLATION GUIDE 1179, (ITEM 1) INTO BOX M071, (ITEM 14). SEAL BOX W/ PACKING TAPE; 3 STRIPS ACROSS LENGTHWISE SEAM, OVER AND DOWN ENDS (1 IN CENTER, 1 EACH ON SIDES TO HOLD CENTER STRIP). SEAL ENDS OF BOX IN A SIMILAR FASHION PLACING TAPE ON TOP OF LENGTHWISE TAPE.
10. SEAL THE ENDS OF BOTH SECTIONS OF THE TELESCOPING BOX M070, (ITEM 13) W/ PACKING TAPE. USE 2 PIECES TO CLOSE THE FLAP AND THEN 3 PIECES IN THE OPPOSITE DIRECTION FOR ADDITIONAL SECURITY.
11. PLACE POLE HM107, (ITEM 5) INTO BOTTOM (SMALLER) SECTION OF THE TELESCOPING BOX M070, (ITEM 13) WITH THE BASE FACING DOWN. ADD THE COMPLETED BOX M071, (ITEM 14) BY SLIDING DOWN ALONGSIDE THE POLE. PLACE THE TOP (LARGER) SECTION OF THE TELESCOPING BOX OVER THE BOTTOM SECTION UNTIL IT TOUCHES THE TOP OF THE POLE. SEAL THE BOX BY WRAPPING 3 PIECES OF PACKING TAPE AROUND THE SEAM; THE FIRST PIECE OVER THE SEAM AND THE OTHER TWO PIECES ON EACH SIDE. SEE DETAIL A.
12. ATTACH LABELS LB2056, (ITEM 9) W/ LOT NUMBER, LB2019A, (ITEM 7), AND LB2055, (ITEM 8) TO TALL BOX M070, (ITEM 13) AS SHOWN. ALL LABELS ARE PRINTED BY ENGINEERING / DOC. CONTROL.

Rev.	Description	Date
D	ECN 000471	29MAY13
C	ECN 000229	07DEC07
B	ECN 000149	19JAN07
A	ECN 000081	22MAY05

Revision History

Tolerances unless otherwise noted on dec.: .XX = ± .02, .XXX = ± .010, ∠ = ± 1°
Third Angle Projection

Drawn: GRB Date: 01JUN05
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R.A.: FXC Date: 07DEC07
Mfg.: TWF Date: 07DEC07
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Figure 5-91. 1119 MRI IV Pole (Non Magnetic)

NOTES: